

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

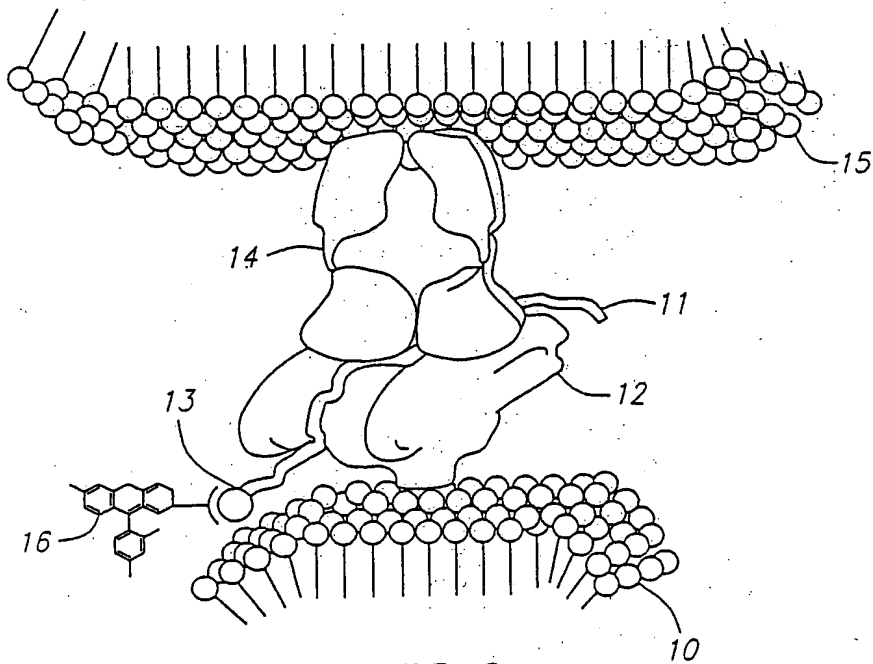
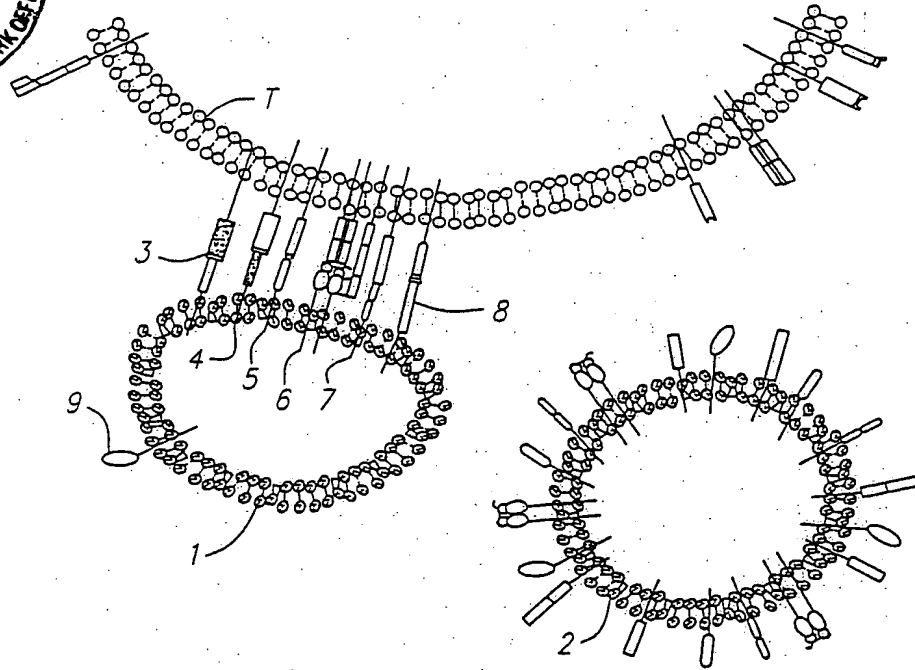
Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**



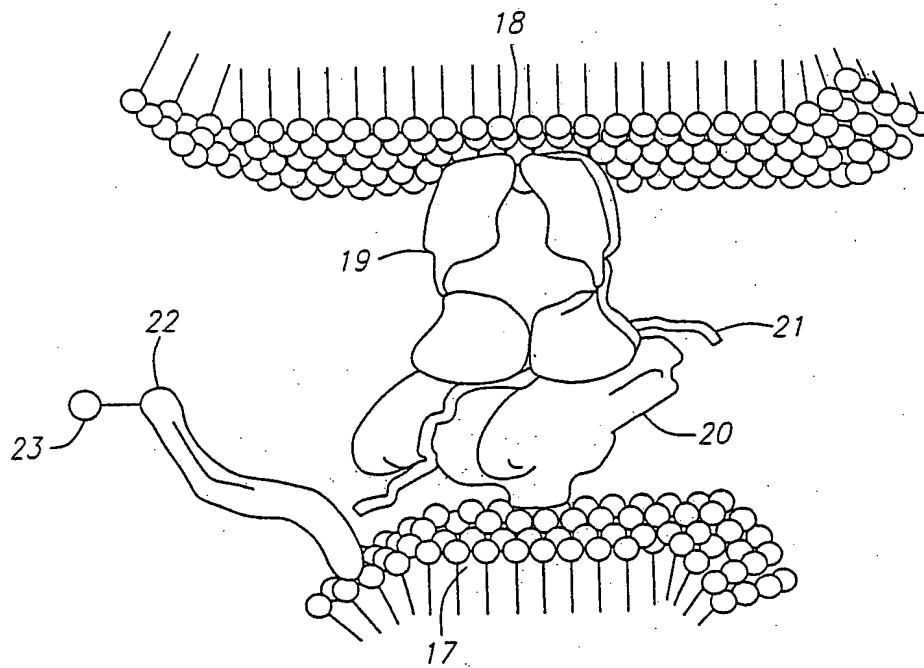


FIG. 3

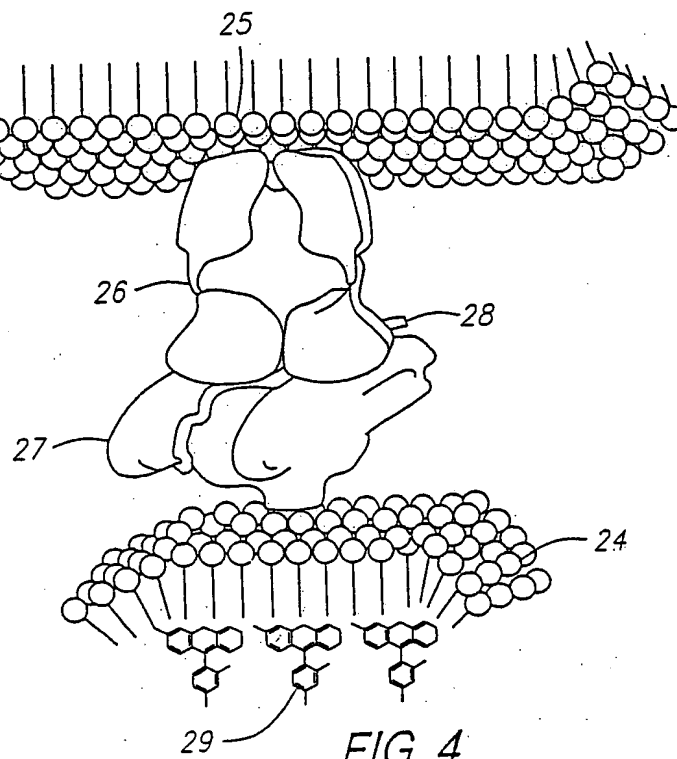


FIG. 4

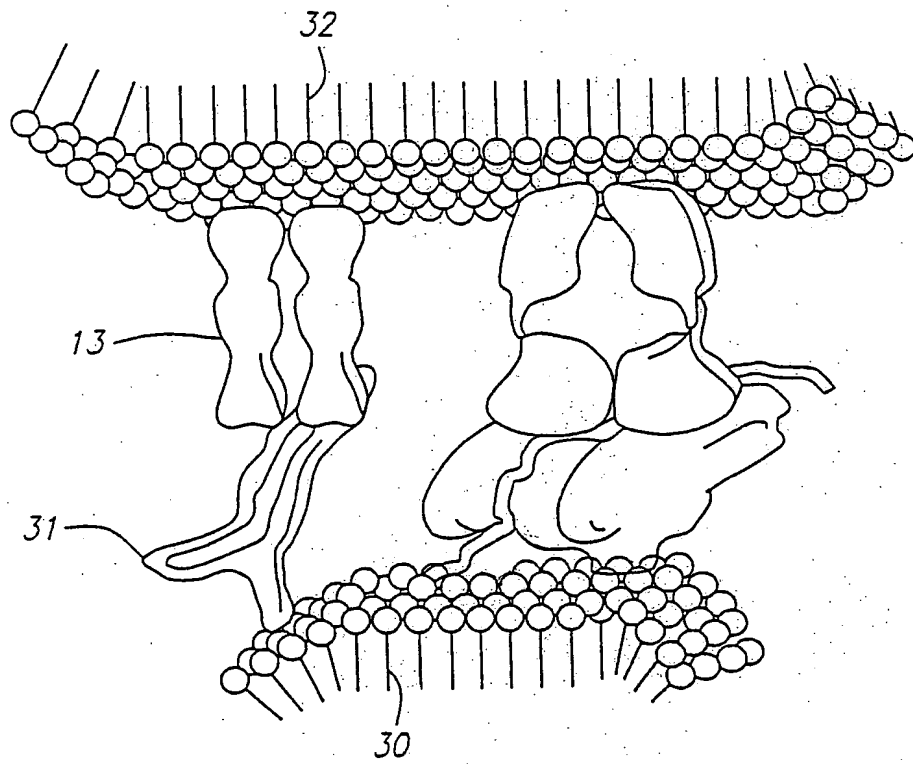
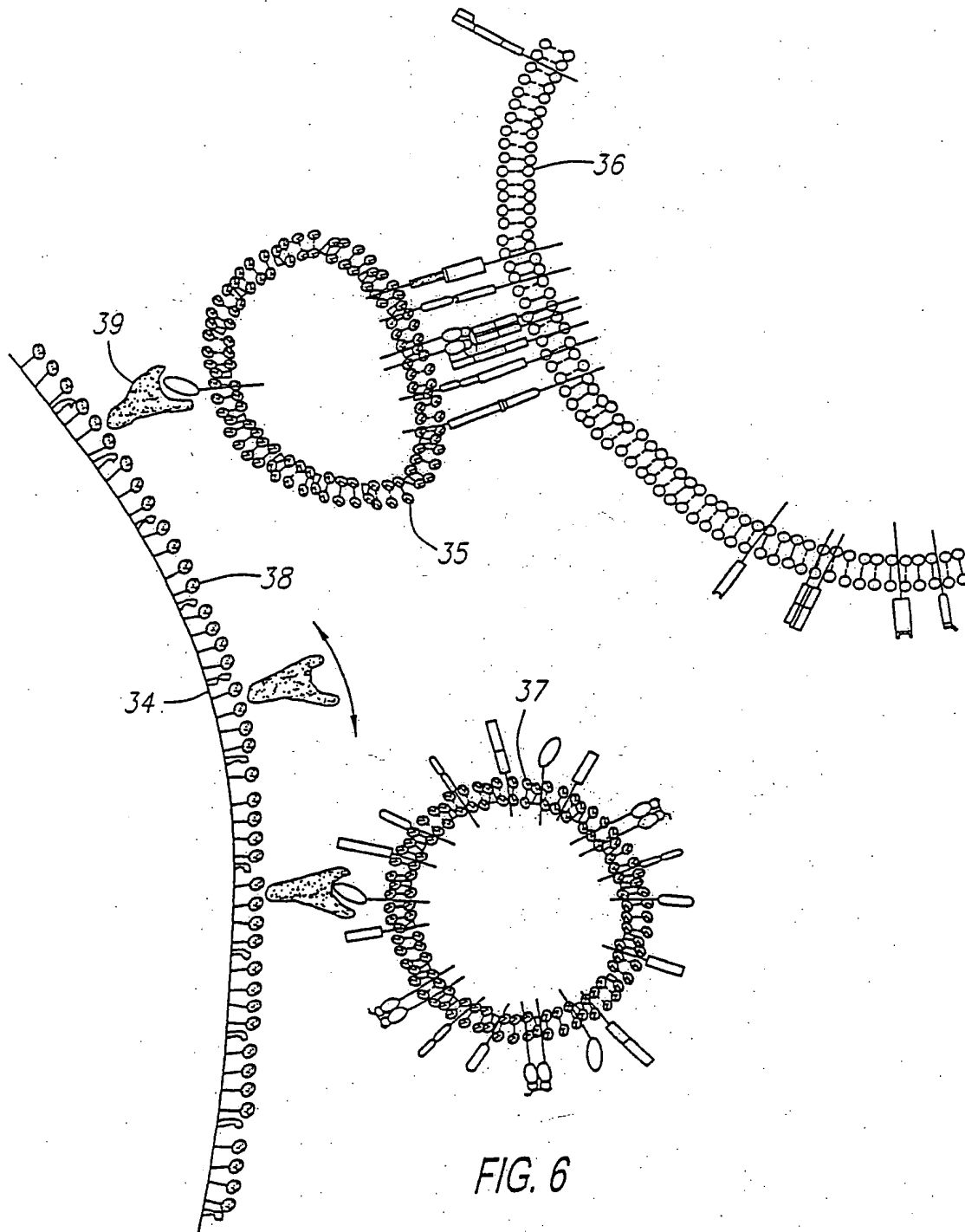


FIG. 5



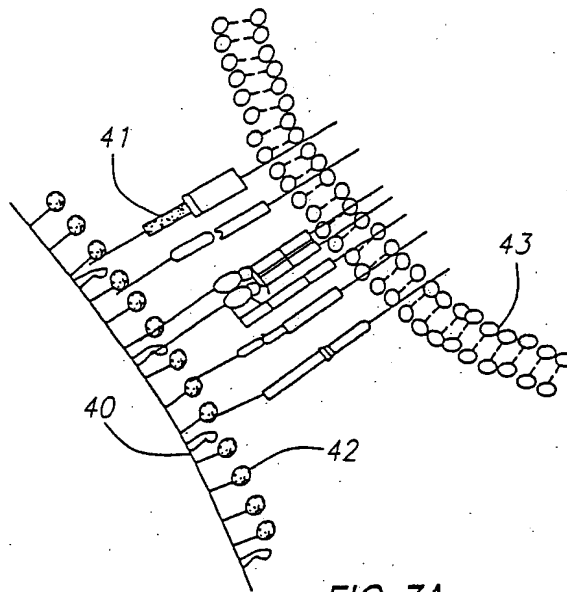


FIG. 7A

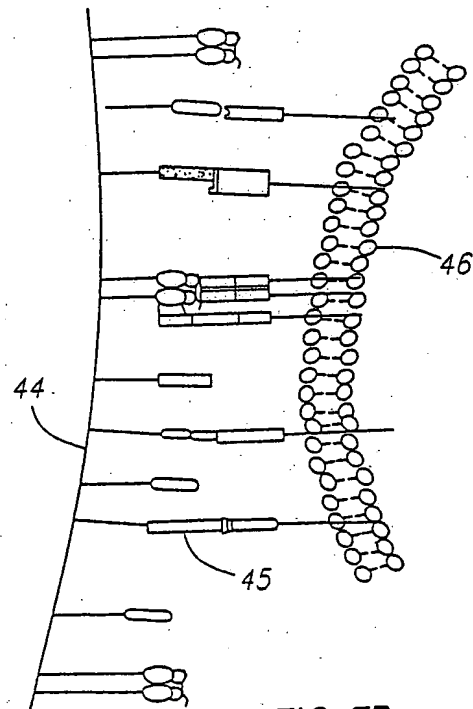


FIG. 7B

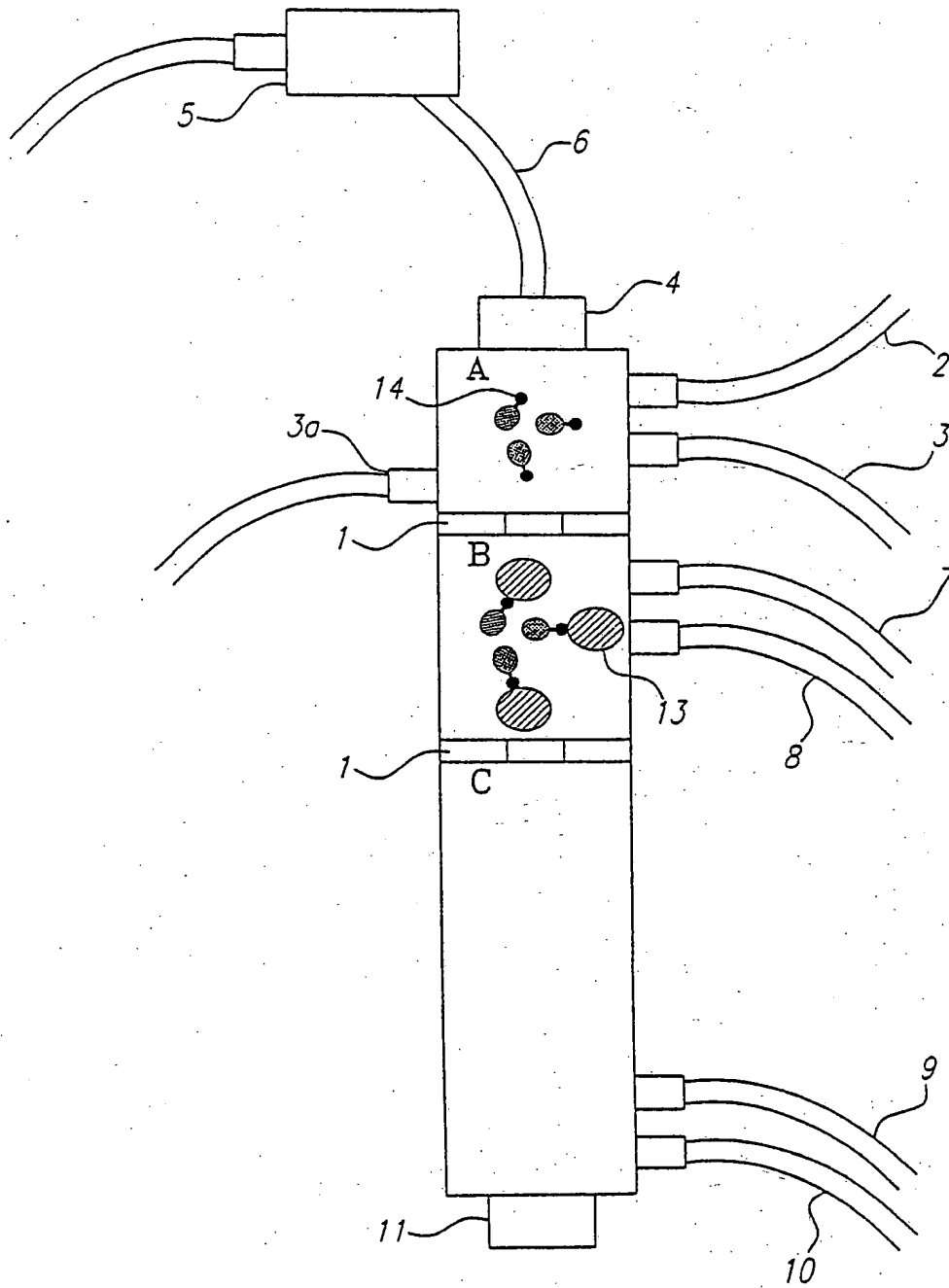
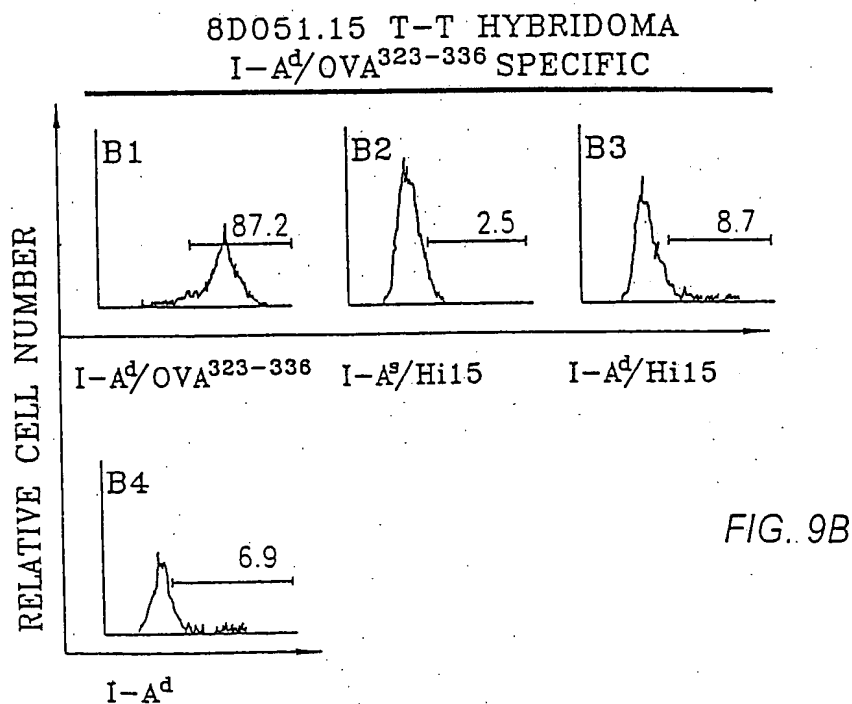
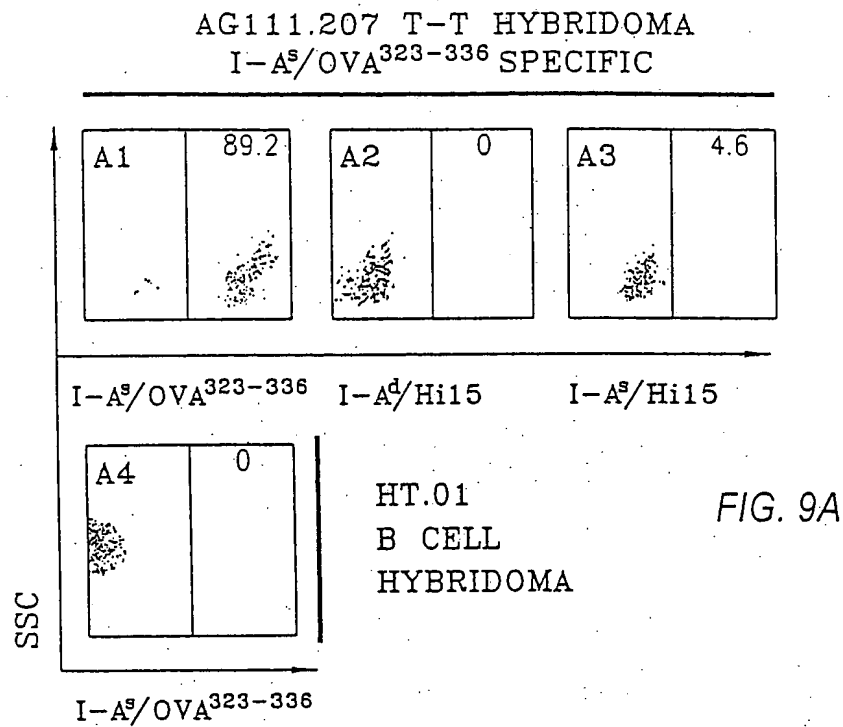


FIG. 8





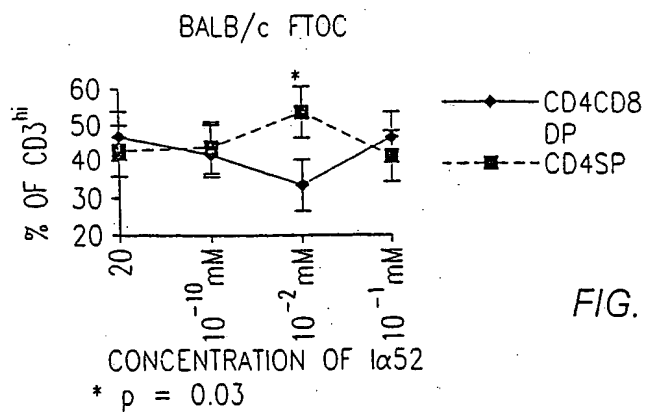


FIG. 10A

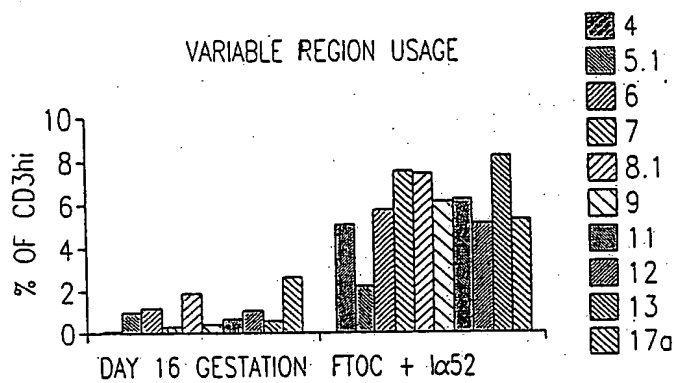


FIG. 10B

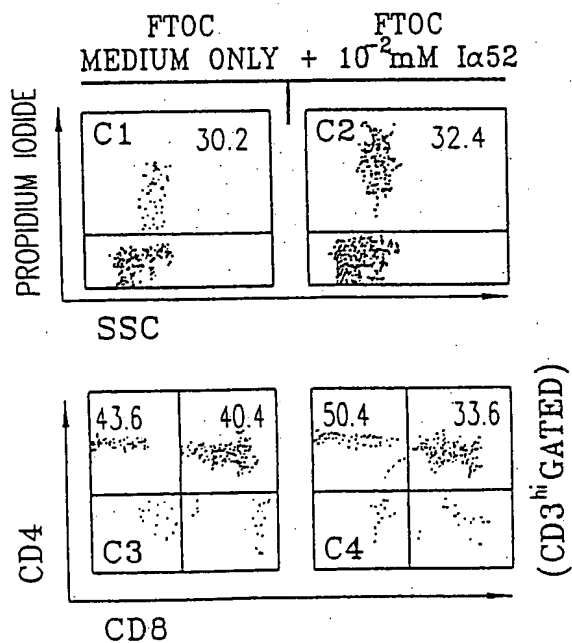


FIG. 10C

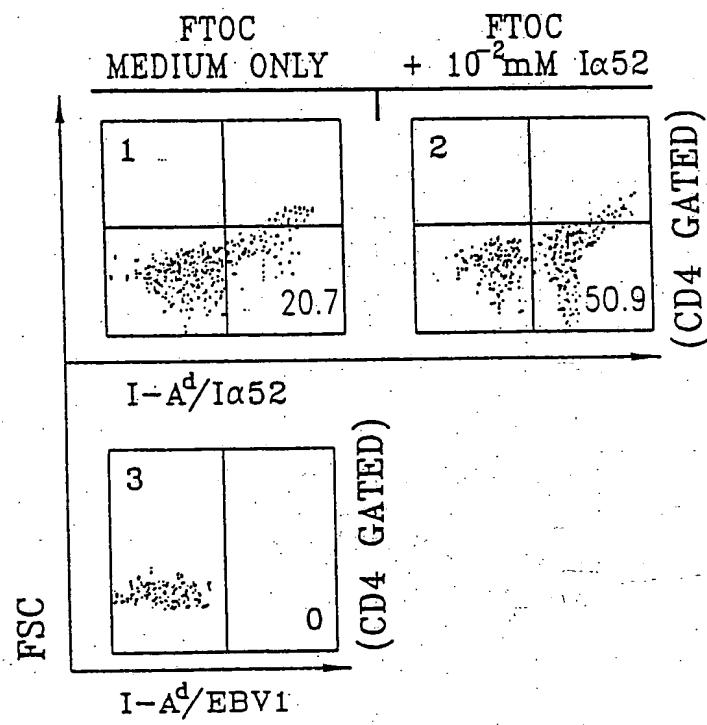


FIG. 11

I $\alpha$ 52 SUPPLEMENTED FTOC  
 Hi15 EXPANDED LINE

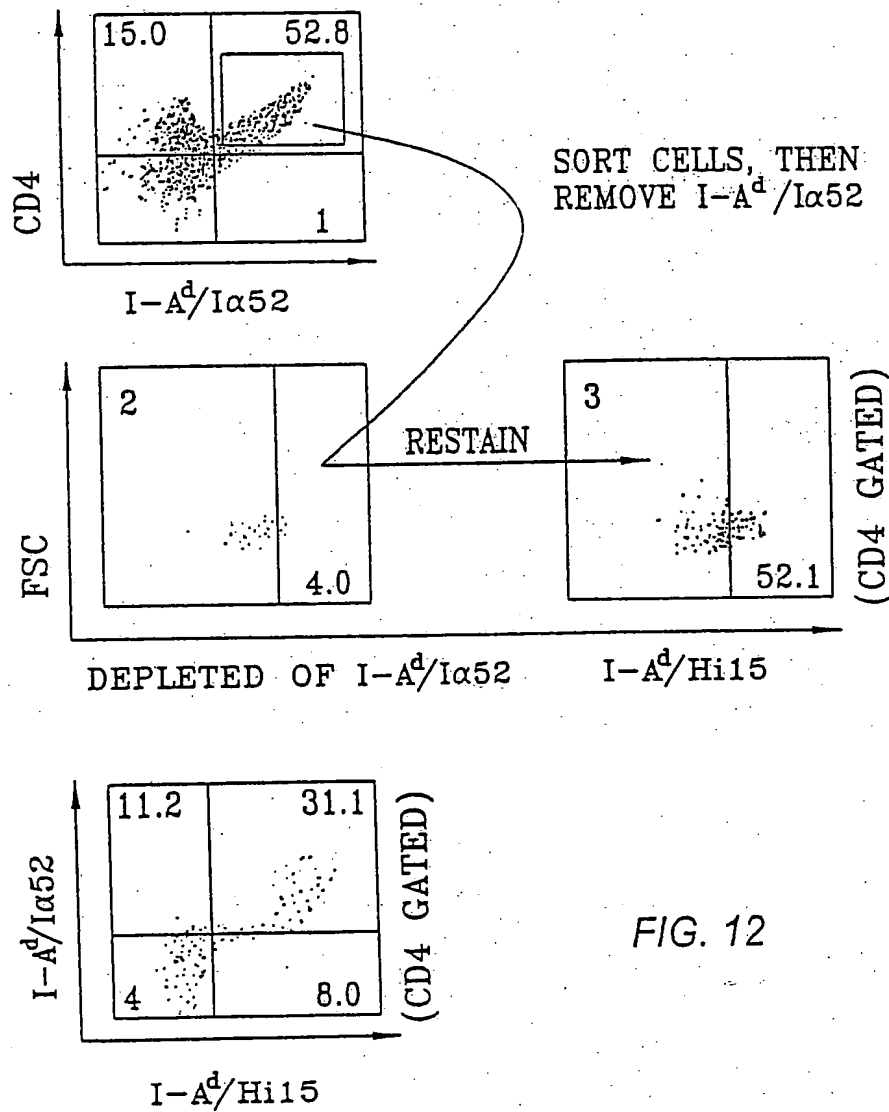


FIG. 12

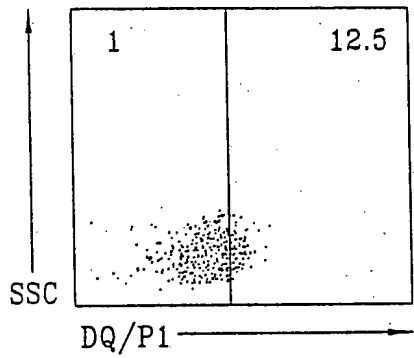


FIG. 13A

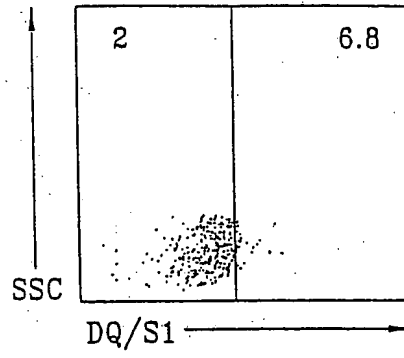


FIG. 13B

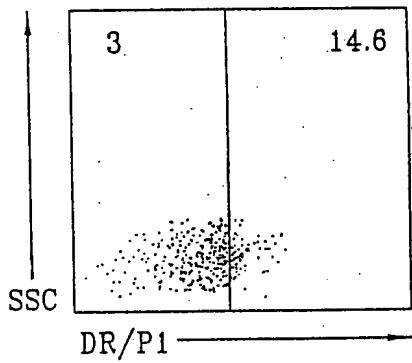


FIG. 13C

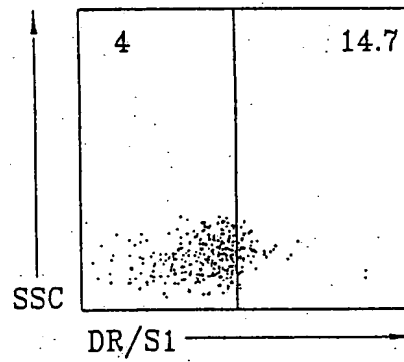


FIG. 13D

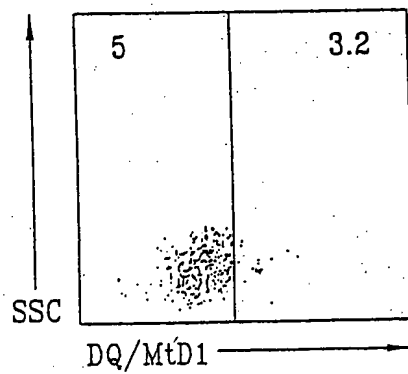


FIG. 13E

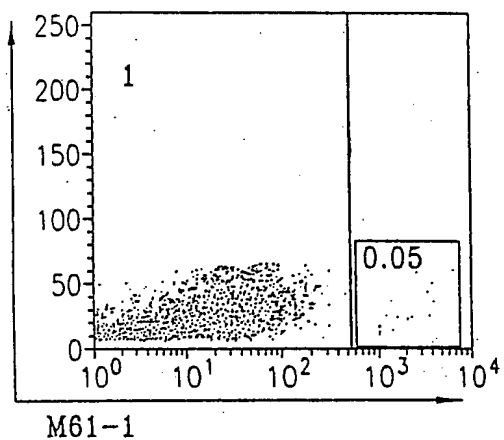


FIG. 14A

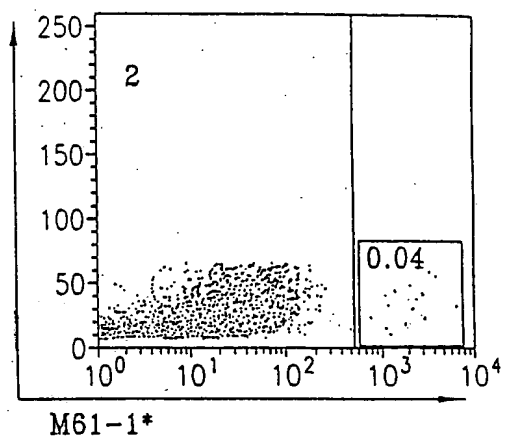


FIG. 14B

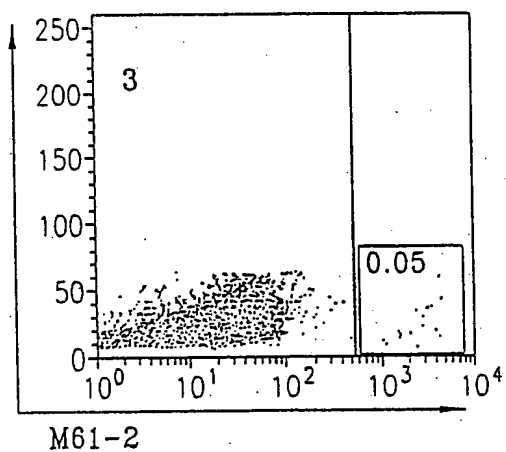


FIG. 14C

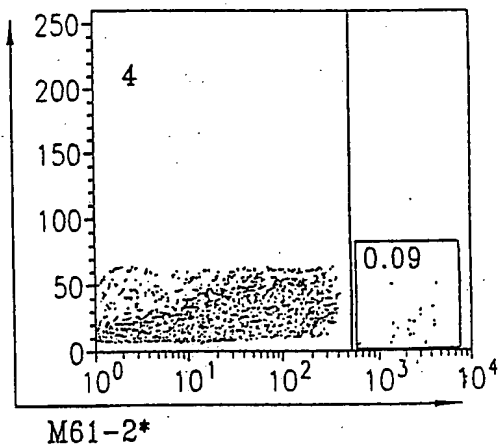


FIG. 14D

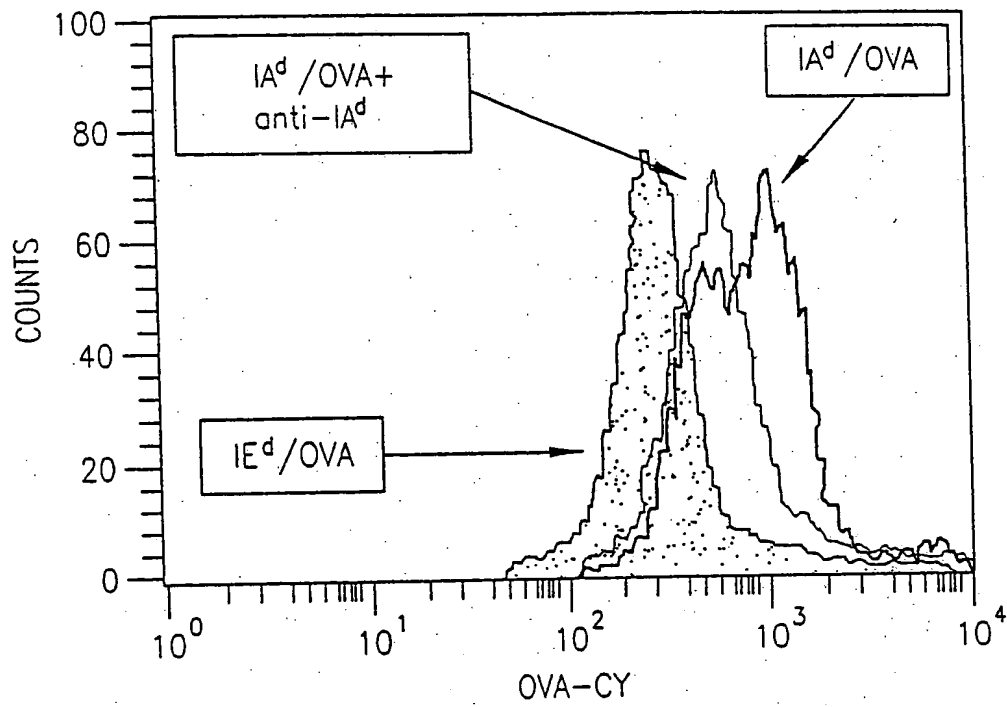
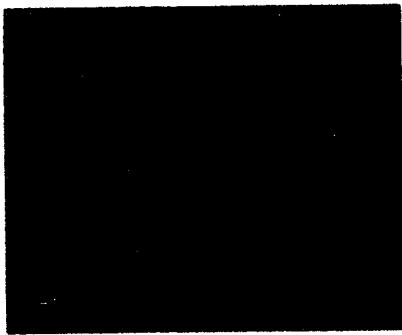
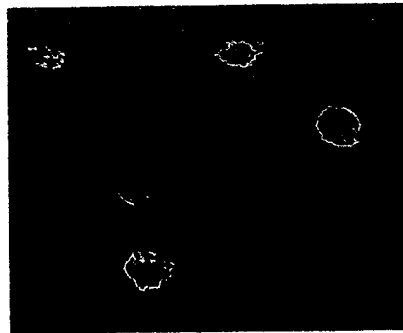


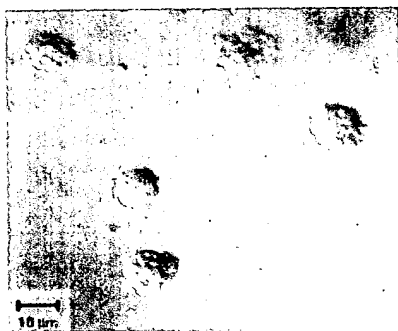
FIG. 15



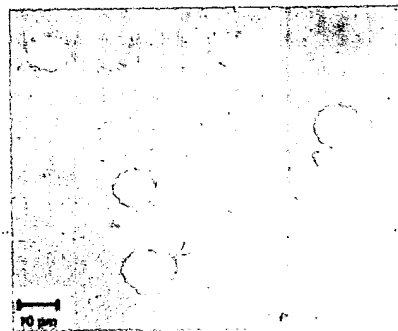
*FIG. 16A*



*FIG. 16B*



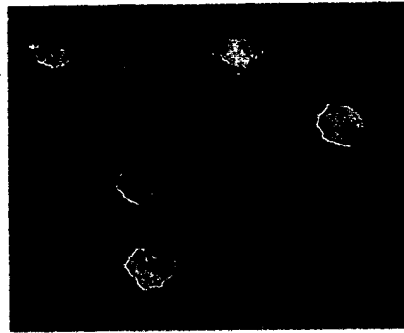
*FIG. 16C*



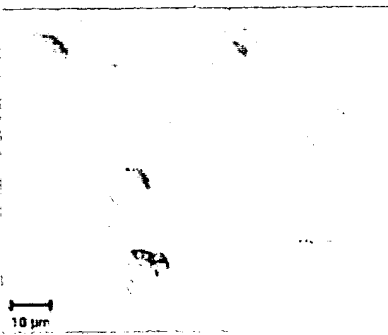
*FIG. 16D*



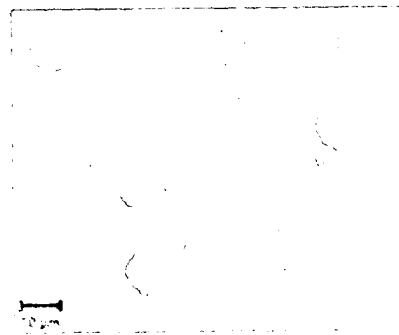
*FIG. 16A*



*FIG. 16B*



*FIG. 16C*

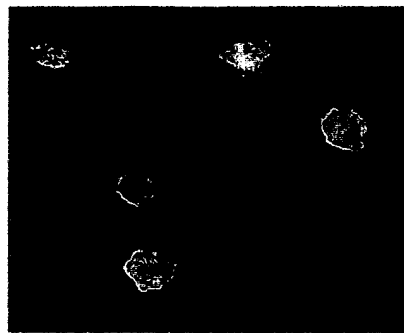


*FIG. 16D*

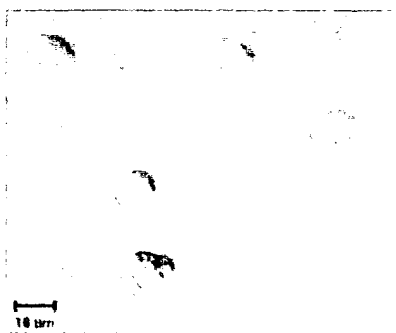




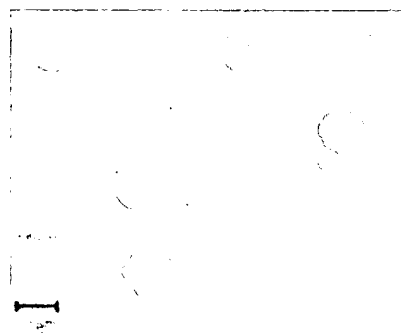
*FIG. 16A*



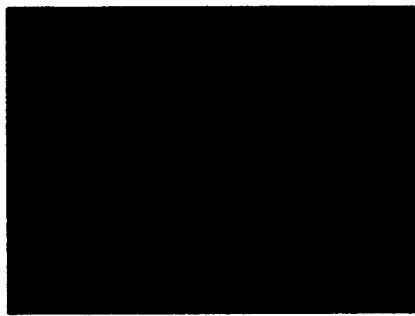
*FIG. 16B*



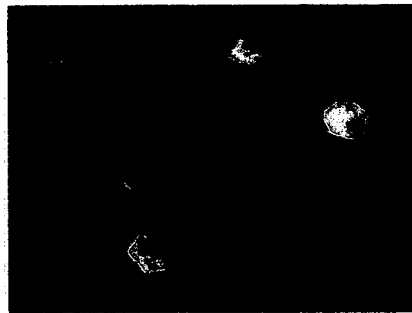
*FIG. 16C*



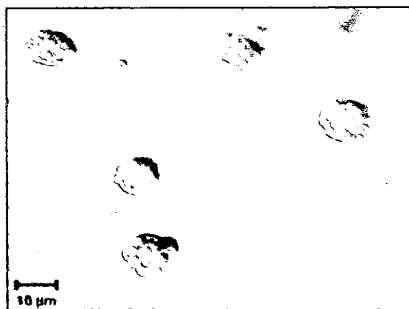
*FIG. 16D*



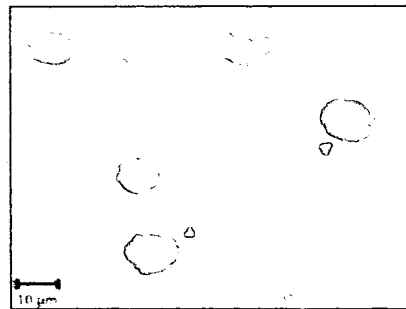
*FIG. 16A*



*FIG. 16B*



*FIG. 16C*



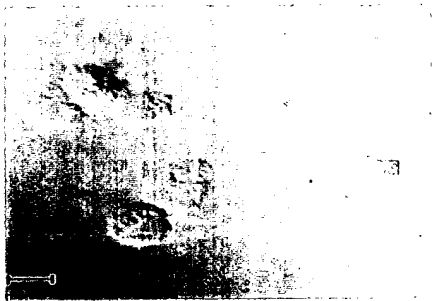
*FIG. 16D*



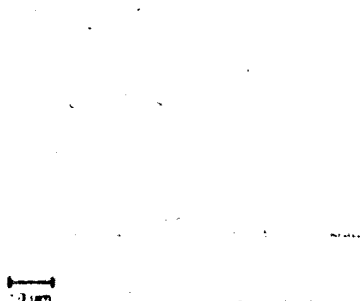
*FIG. 17A*



*FIG. 17B*



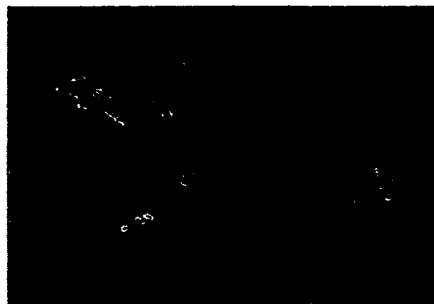
*FIG. 17C*



*FIG. 17D*



**FIG. 17A**



**FIG. 17B**



**FIG. 17C**



**FIG. 17D**



*FIG. 17A*



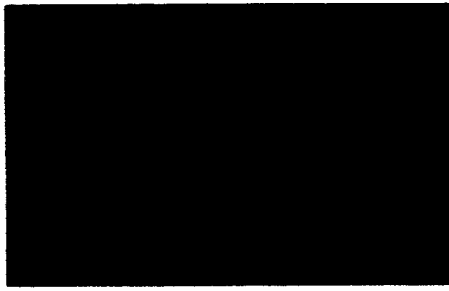
*FIG. 17B*



*FIG. 17C*



*FIG. 17D*



*FIG. 17A*



*FIG. 17B*



*FIG. 17C*



*FIG. 17D*



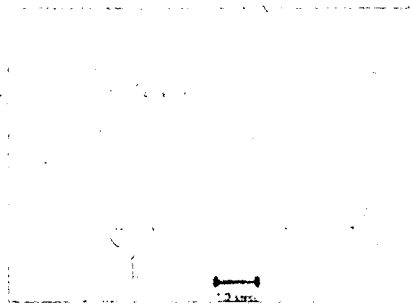
*FIG. 18A*



*FIG. 18B*



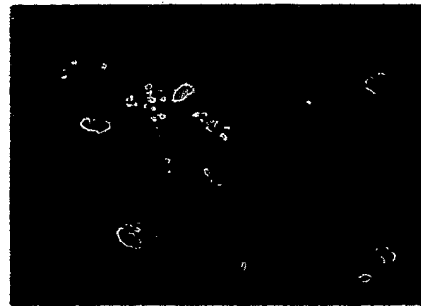
*FIG. 18C*



*FIG. 18D*



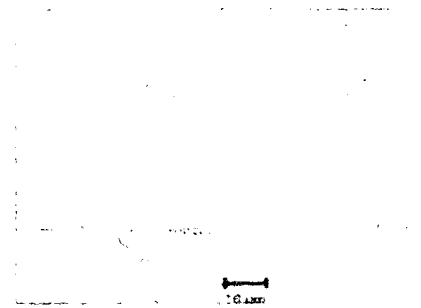
*FIG. 18A*



*FIG. 18B*



*FIG. 18C*



*FIG. 18D*





*FIG. 18A*



*FIG. 18B*



*FIG. 18C*



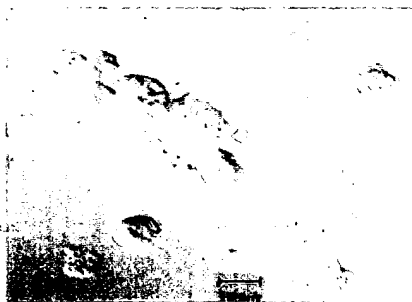
*FIG. 18D*



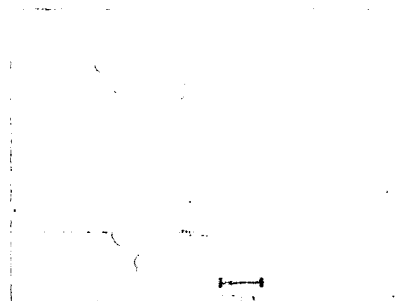
*FIG. 18A*



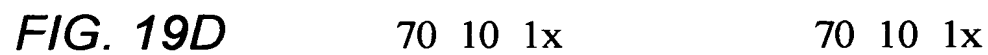
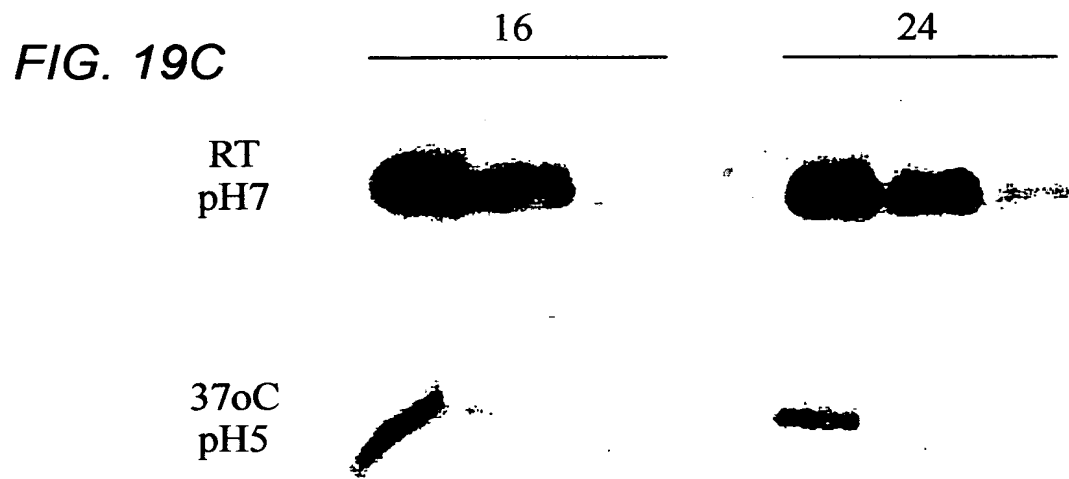
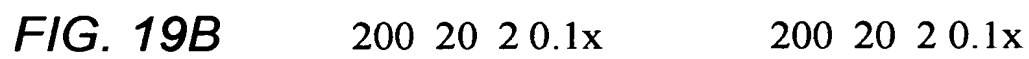
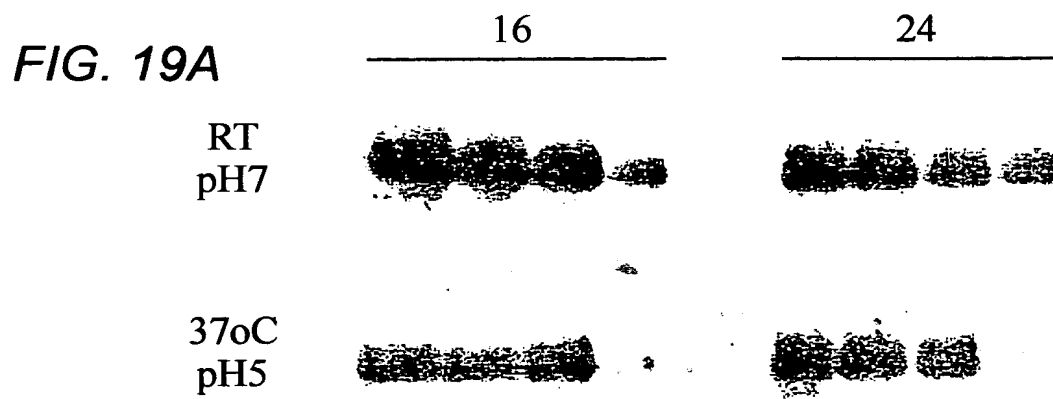
*FIG. 18B*



*FIG. 18C*



*FIG. 18D*



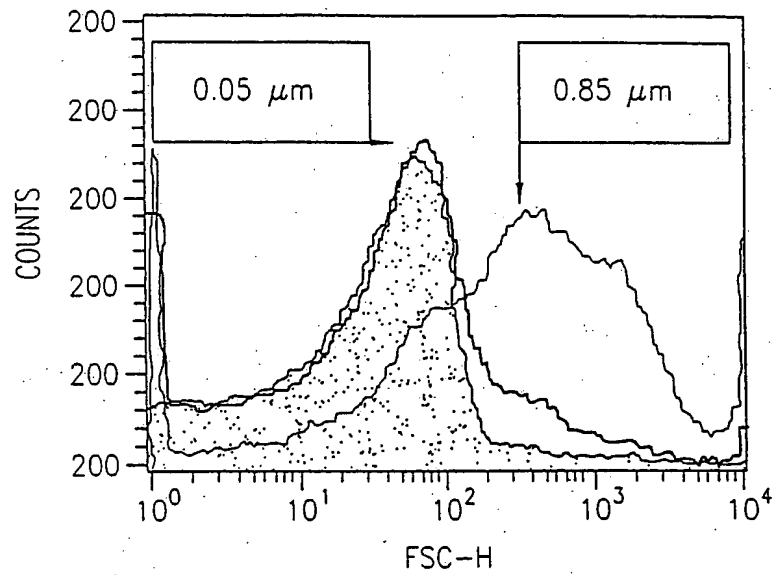


FIG. 20

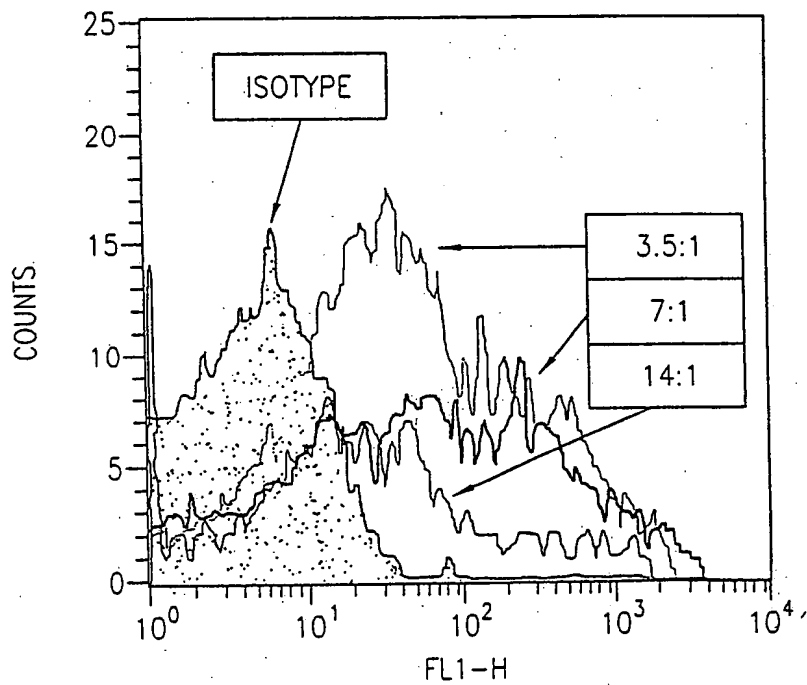
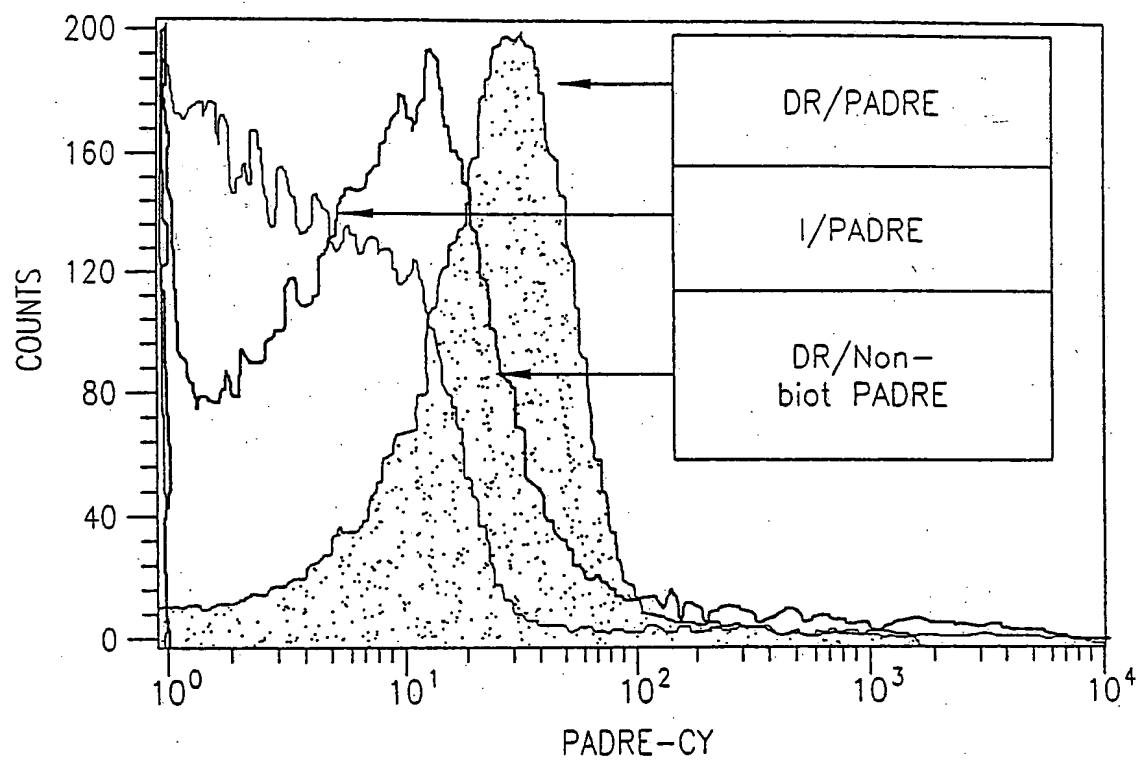


FIG. 21



*FIG. 22*

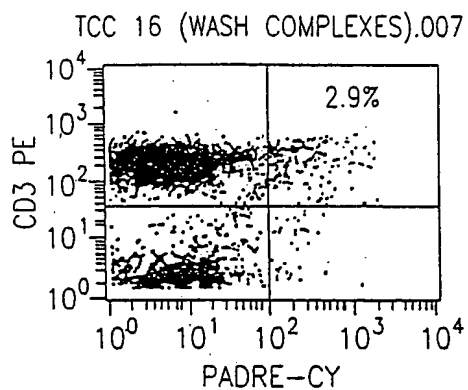


FIG. 23A

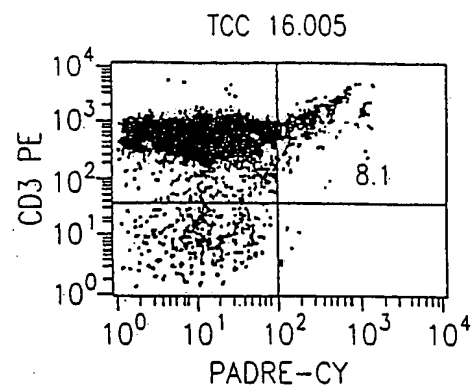


FIG. 23B

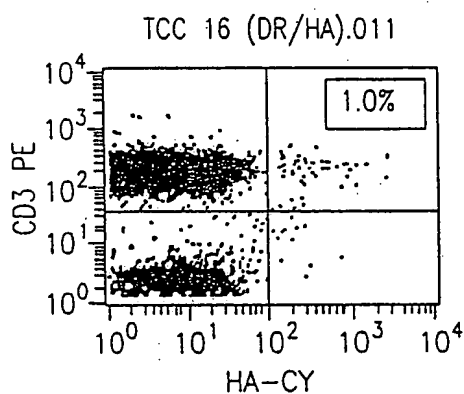


FIG. 23C

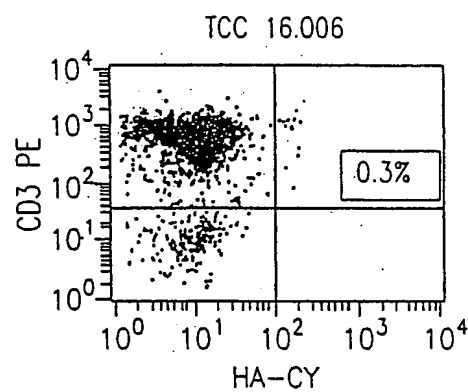


FIG. 23D

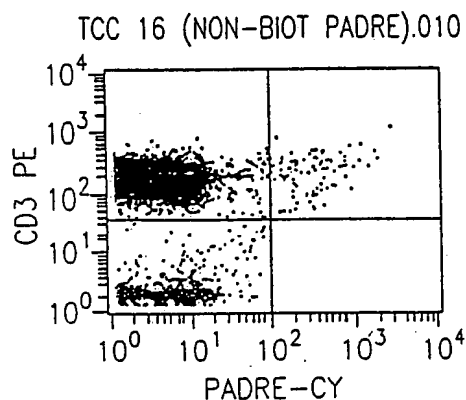


FIG. 23E

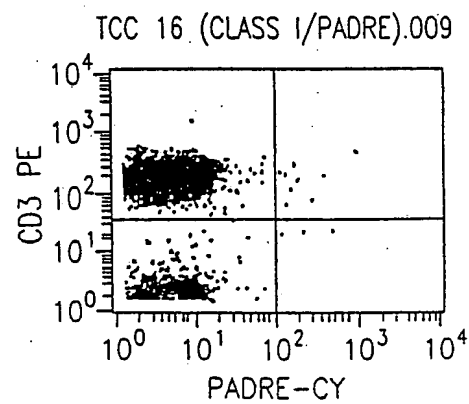


FIG. 23F

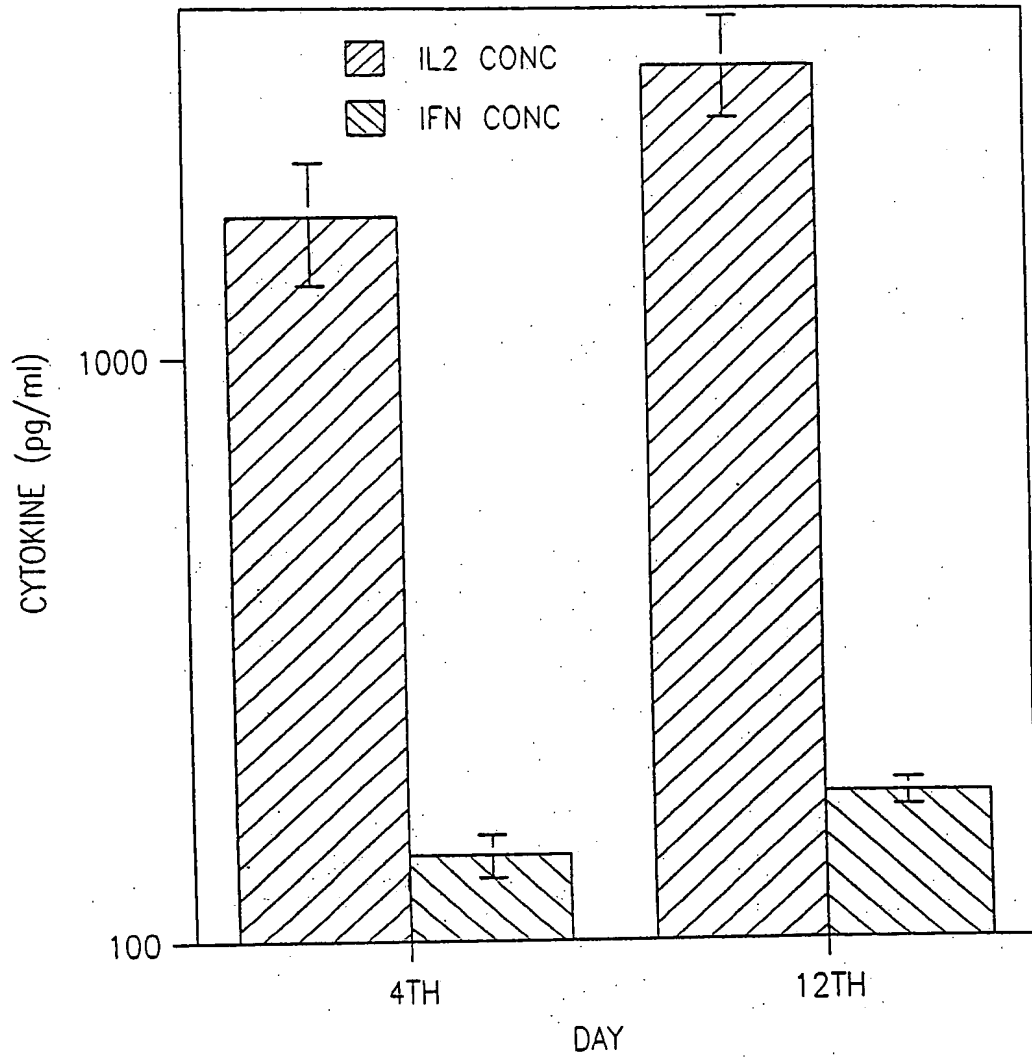


FIG. 24

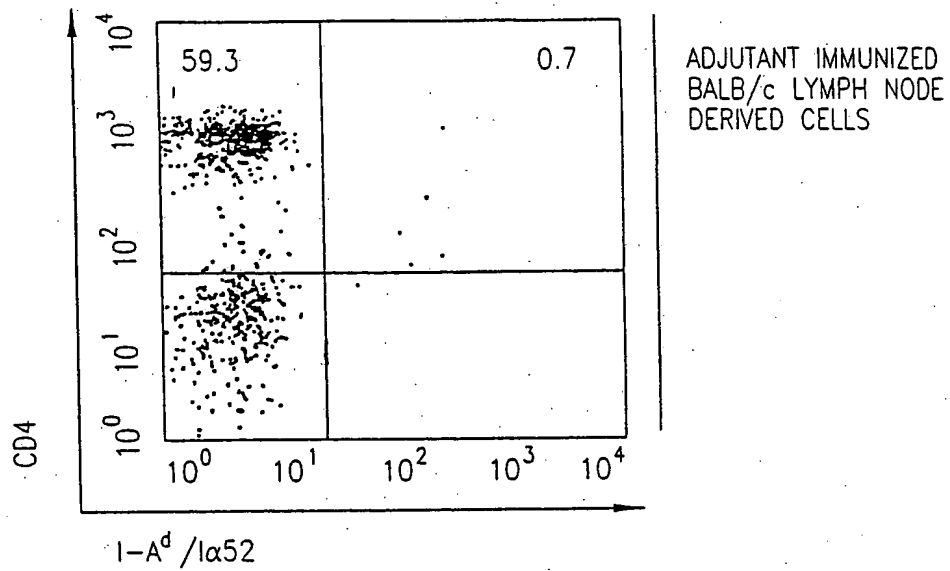


FIG. 25A

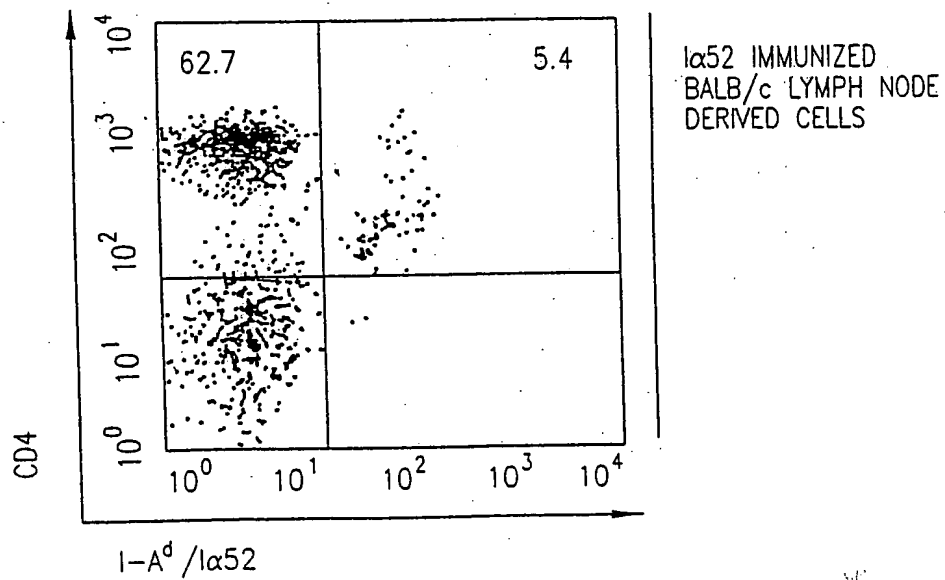


FIG. 25B



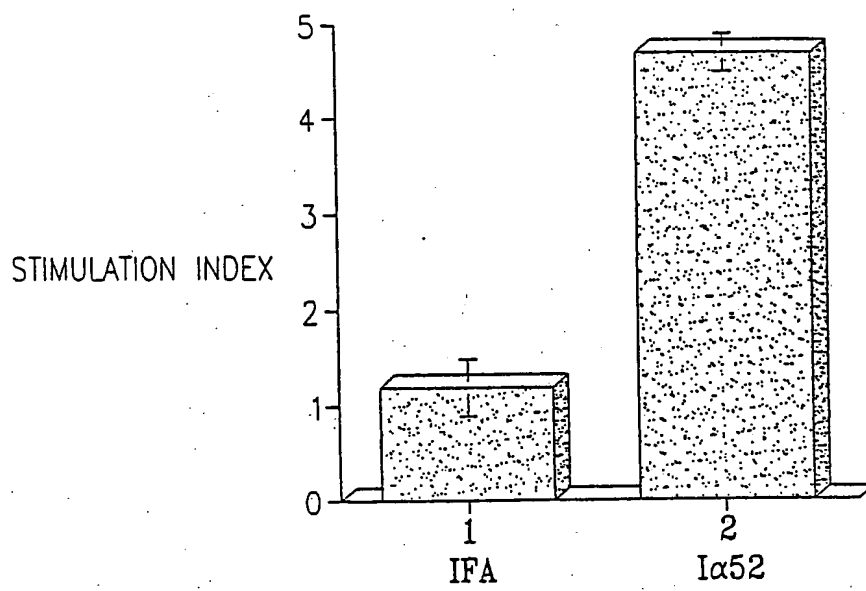
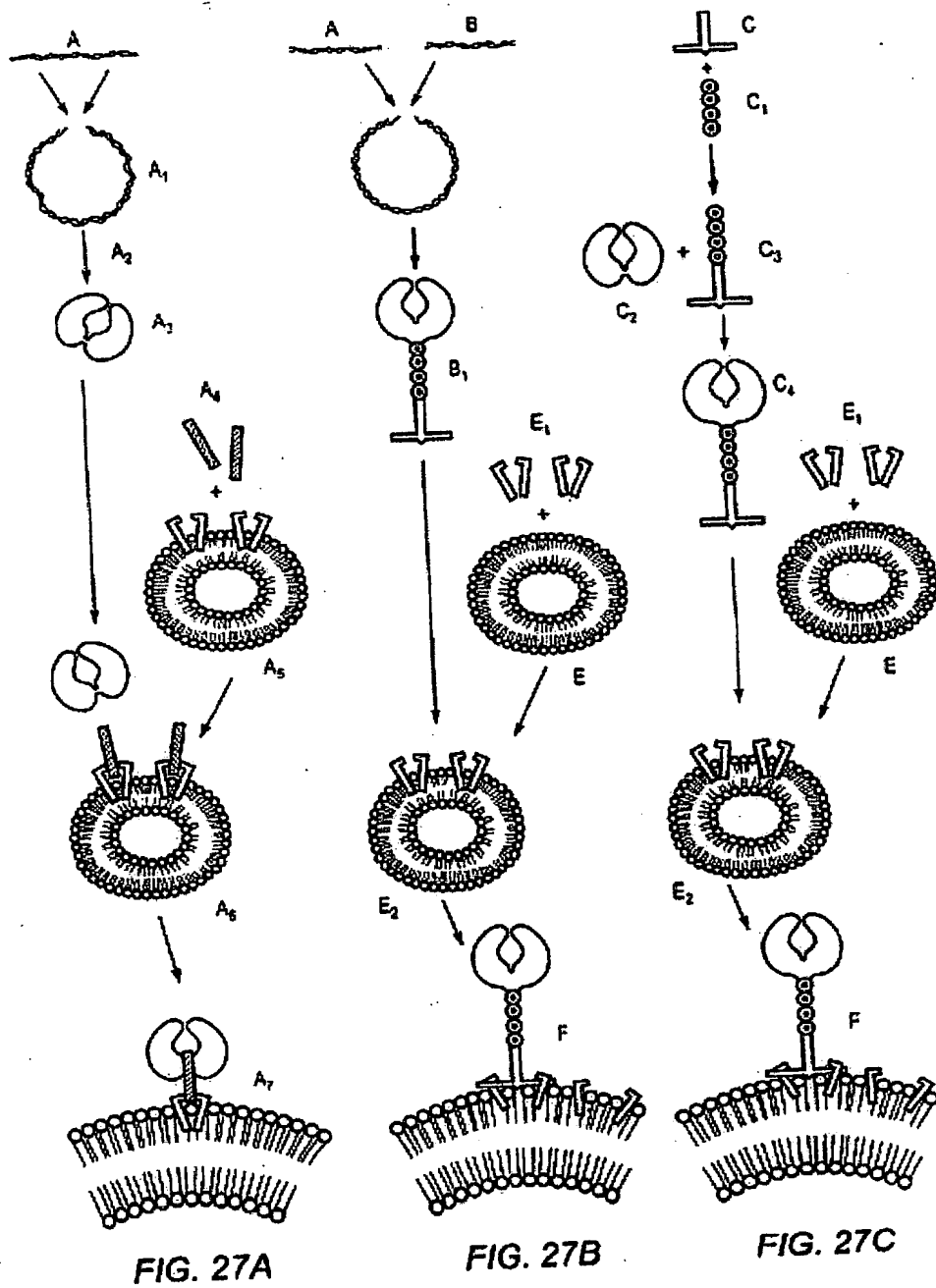


FIG. 26



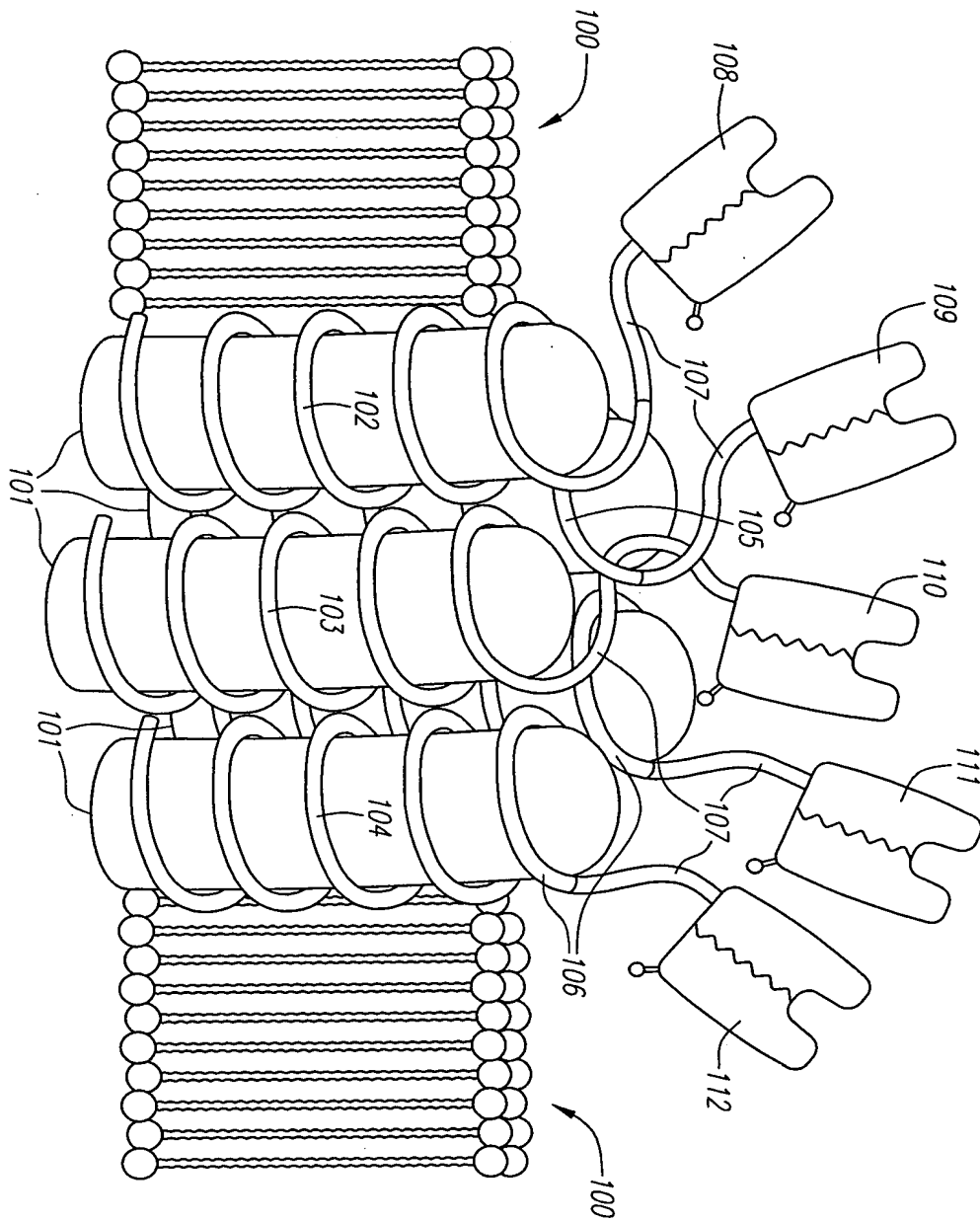


FIG. 28

B7.1-CTB construct translation DNA-PROTEIN

M G H T R R Q G T S P S K C P Y L N F F  
atg ggc cac aca cgg agg cag gga aca tca cca tcc aag tgt cca tac ctc aat ttc ttt

Q L L V L A G L S H F C S G V I H V T K  
cag ctc ttg gtg ctg gct ggt ctt tct cac ttc tgt tca ggt gtt atc cac gtg acc aag

E V K E V A T L S C G H N V S V E E L A  
gaa gtg aaa gaa gtg gca acg ctg tcc tgt ggt cac aat gtt tct gtt gaa gag ctg gca

Q T R I Y W Q K E K K M V L T M M S G D  
caa act cgc atc tac tgg caa aag gag aag aaa atg gtg ctg act atg atg tct ggg gac

M N I W P E Y K N R T I F D I T N N L S  
atg aat ata tgg ccc gag tac aag aac cgg acc atc ttt gat atc act aat aac ctc tcc

I V I L A L R P S D E G T Y E C V V L K  
att gtg atc ctg gct ctg cgc cca tct gac gag ggc aca tac gag tgt gtt gtt ctg aag

Y E K D A F K R E H L A E V T L S V K A  
tat gaa aaa gac gct ttc aag cgg gaa cac ctg gct gaa gtg acg tta tca gtc aaa gct

D F P T P S I S D F E I P T S N I R R I  
gac ttc cct aca cct agt ata tct gac ttt gaa att cca act tct aat att aga agg ata

I C S T S G G F P E P H L S W L E N G E  
att tgc tca acc tct gga ggt ttt cca gag cct cac ctc tcc tgg ttg gaa aat gga gaa

E L N A I N T T V S Q D P E T E L Y A V  
gaa tta aat gcc atc aac aca aca gtt tcc caa gat cct gaa act gag ctc tat gct gtt

S E F G G S G G S A T P Q N I T D L C  
agc gaa ttc ggc ggc tcc ggt ggt agc gcc aca cct caa aat att act gat ttg tgt

A E Y H N T Q I H T L N D K I F S Y T E  
gca gaa tac cac aac aca caa ata cat acg cta aat gat aag ata ttt tcg tat aca gaa

S L A G K R E M A I I T F K N G A T F Q  
tct cta gct gga aaa aga gag atg gct atc att act ttt aag aat ggt gca act ttt caa

V E V P G S Q H I D S Q K K A I E R M K  
gta gaa gta cca ggt agt caa cat ata gat tca caa aaa aaa gcg att gaa agg atg aag

D T L R I A Y L T E A K V E K L C V W N  
gat acc ctg agg att gca tat ctt act gaa gct aaa gtc gaa aag tta tgt gta tgg aat

N K T P H A I A A I S M A N \*  
aat aaa acg cct cat gcg att gcc gca att agt atg gca aat taa

FIG. 29

B7.2-CTB construct translation DNA-PROTEIN

M G L S N I L F V M A F L L S G A A P L  
atg gga ctg agt aac att ctc ttt gtg atg gcc ttc ctg ctc tct ggt gct gct cct ctg

K I Q A Y F N E T A D L P C Q F A N S Q  
aag att caa gct tat ttc aat gag act gca gac ctg cca tgc caa ttt gca aac tct caa

N Q S L S E L V V F W Q D Q E N L V L N  
aac caa agc ctg agt gag cta gta gta ttt tgg cag gac cag gaa aac ttg gtt ctg aat

E V Y L G K E K F D S V H S K Y M G R T  
gag gta tac tta ggc aaa gag aaa ttt gac agt gtt cat tcc aag tat atg ggc cgc aca

S F D S D S W T L R L H N L Q I K D K G  
agt ttt gat tcg gac agt tgg acc ctg aga ctt cac aat ctt cag atc aag gac aag ggc

L Y Q C I I H H K K P T G M I R I H Q M  
ttg tat caa tgt atc atc cat cac aaa aag ccc aca gga atg att cgc atc cac cag atg

N S E L S V L A N F S Q P E I V P I S N  
aat tct gaa ctg tca gtg ctt gct aac ttc agt caa cct gaa ata gta cca att tct aat

I T E N V Y I N L T C S S I H G Y P E P  
ata aca gaa aat gtg tac ata aat ttg acc tgc tca tct ata cac ggt tac cca gaa cct

K K M S V L L R T K N S T I E Y D G I M  
aag aag atg agt gtt ttg cta aga acc aag aat tca act atc gag tat gat ggt att atg

Q K S Q D N V T E L Y D V S I S L S V S  
cag aaa tct caa gat aat gtc aca gaa ctg tac gac gtt tcc atc agc ttg tct gtt tca

F P D V T S N M T I F C I L E T D K T R  
ttc cct gat gtt acg agc aat atg acc atc ttc tgt att ctg gaa act gac aag acg cgg

L L S S P F S I E L E D P Q P P P D H E  
ctt tta tct tca cct ttc tct ata gag ctt gag gac cct cag cct ccc cca gac cac gaa

F G G S G G S A T P Q N I T D L C A E  
ttc ggc ggc tcc ggt ggt agc gcc aca cct caa aat att act gat ttg tgt gca gaa

Y H N T Q I H T L N D K I F S Y T E S L  
tac cac aac aca caa ata cat acg cta aat gat aag ata ttt tcg tat aca gaa tct cta

A G K R E M A I I T F K N G A T F Q V E  
gct gga aaa aga gag atg gct atc att act ttt aag aat ggt gca act ttt caa gta gaa

V P G S Q H I D S Q K K A I E R M K D T  
gta cca ggt agt caa cat ata gat tca caa aaa aaa gcg att gaa agg atg aag gat acc

L R I A Y L T E A K V E K L C V W N N K  
ctg agg att gca tat ctt act gaa gct aaa gtc gaa aag tta tgt gta tgg aat aat aaa

T P H A I A A I S M A N \*  
acg cct cat gcg att gcc gca att agt atg gca aat taa

FIG. 30

DRA1-CTB construct translation PROTEIN-DNA

M A I S G V P V L G F F I I A V L M S A  
ATG GCC ATA AGT GGA GTC CCT GTG CTA GGA TTT TTC ATC ATA GCT GTG CTG ATG AGC GCT  
Q E S W A I K E E H V I I Q A E F Y L N  
CAG GAA TCA TGG GCT ATC AAA GAA GAA CAT GTG ATC ATC CAG GCC GAG TTC TAT CTG AAT  
P D Q S G E F M F D F D G D E I F H V D  
CCT GAC CAA TCA GGC GAG TTT ATG TTT GAC TTT GAT GGT GAT GAG ATT TTC CAT GTG GAT  
M A K K E T V W R L E E F G R F A S F E  
ATG GCA AAG AAG GAG ACG GTC TGG CGG CTT GAA GAA TTT GGA CGA TTT GCC AGC TTT GAG  
A Q G A L A N I A V D K A N L E I M T K  
GCT CAA GGT GCA TTG GCC AAC ATA GCT GTG GAC AAA GCC AAC CTG GAA ATC ATG ACA AAG  
R S N Y T P I T N V P P E V T V L T N S  
CGC TCC AAC TAT ACT CCG ATC ACC AAT GTA CCT CCA GAG GTA ACT GTG CTC ACG AAC AGC  
P V E L R E P N V L I C F I D K F T P P  
CCT GTG GAA CTG AGA GAG CCC AAC GTC CTC ATC TGT TTC ATC GAC AAG TTC ACC CCA CCA  
V V N V T W R L N G K P V T T G V S E T  
GTG GTC AAT GTC ACG TGG CTT CGA AAT GGA AAA CCT GTC ACC ACA GGA GTG TCA GAG ACA  
V F L P R E D H L F R K F H Y L P F L P  
GTC TTC CTG CCC AGG GAA GAC CAC CTT TTC CGC AAG TTC CAC TAT CTC CCC TTC CTG CCC  
S T E D V Y D C R V E H W G L D E P L L  
TCA ACT GAG GAC GTT TAC GAC TGC AGG GTG GAG CAC TGG GGC TTG GAT GAG CCT CTT CTC  
K H W E F D A P S P L P E T T E E F G G  
AAG CAC TGG GAG TTT GAT GCT CCA AGC CCT CTC CCA GAG ACT ACA GAG GAA TTC GGT GGT  
S G G S A Q L E W E L Q A L E K E N A Q  
TCC GGT GGT TCC GCG CAG CTG GAA TGG GAA CTG CAG GCG CTG GAA AAA GAA AAC GCG CAG  
L E W E L Q A L E K E L A Q G G S G G S  
CTG GAA TGG GAA CTG CAG GCG CTG GAA AAA GAA CTG GCG CAG GGC GGC TCC GGT GGT AGC  
A T P Q N I T D L C A E Y H N T Q I H  
GCC ACA CCT CAA AAT ATT ACT GAT TTG TGT GCA GAA TAC CAC AAC ACA CAA ATA CAT  
T L N D K I F S Y T E S L A G K R E M A  
ACG CTA AAT GAT AAG ATA TTT TCG TAT ACA GAA TCT CTA GCT GGA AAA AGA GAG ATG GCT  
I I T F K N G A T F Q V E V P G S Q H I  
ATC ATT ACT TTT AAG AAT GGT GCA ACT TTT CAA GTA GAA GTA CCA GGT AGT CAA CAT ATA  
D S Q K K A I E R M K D T L R I A Y L T  
GAT TCA CAA AAA AAA GCG ATT GAA AGG ATG AAG GAT ACC CTG AGG ATT GCA TAT CTT ACT  
E A K V E K L C V W N N K T P H A I A A  
GAA GCT AAA GTC GAA AAG TTA TGT GTA TGG AAT AAT AAA ACG CCT CAT GCG ATT GCC GCA  
I S M A N \*  
ATT AGT ATG GCA AAT TAA

FIG. 31

DRB1-biotag construct translation PROTEIN-DNA

1/1	31/11
M V C L K F P G G S	C M A A L T V T L M
ATG GTG TGT CTG AAG TTC CCT GGA GGC TCC	TGC ATG GCA GCT CTG ACA GTG ACA CTG ATG
61/21	91/31
V L S S P L A L A G	D T R P R F L E Q V
GTG CTG AGC TCC CCA CTG GCT TTG GCT GGG	GAC ACC CGA CCA CGT TTC TTG GAG CAG GTT
121/41	151/51
K H E C H F F N G T	E R V R F L D R Y F
AAA CAT GAG TGT CAT TTC TTC AAC GGG AGC	GAG CGG GTG CGG TTC CTG GAC AGA TAC TTC
181/61	211/71
Y H Q E E Y V R F D	S D V G E Y R A V T
TAT CAC CAA GAG GAG TAC GTG CGC TTC GAC	AGC GAC GTG GGG GAG TAC CGG GCG GTG ACG
241/81	271/91
E L G R P D A E Y W	N S Q K D L L E Q K
GAG CTG GGG CGG CCT GAT GCC GAG TAC TGG	AAC AGC CAG AAG GAC CTC CTG GAG CAG AAG
301/101	331/111
R A A V D T Y C R H	N Y G V G E S F T V
CGG GCC GCG GTG GAC ACC TAC TGC AGA CAC	ACC TAC GGG GTT GGT GAG AGC TTC ACA GTG
361/121	391/131
Q R R V Y P E V T V	Y P A K T Q P L Q H
CAG CGG CGA GTC TAT CCT GAG GTG ACT GTG	TAT CCT GCA AAG ACC CAG CCC CTG CAG CAC
421/141	451/151
H N L L V C S V N G	F Y P G S I E V R W
CAC AAC CTC CTG GTC TGC TCT GTG AAT GGT	TTC TAT CCA GGC AGC ATT GAA GTC AGG TGG
481/161	511/171
F R N G Q E E K T G	V V S T G L I Q N G
TTC CGG AAC GGC CAG GAA GAG AAG ACT GGG	GTG GTG TCC ACA GGC CTG ATC CAG AAT GGA
541/181	571/191
D W T F Q T L V M L	E T V P R S G E V Y
GAC TGG ACC TTC CAG ACC CTG GTG ATG CTG	GAA ACA GTT CCT CGG AGT GGA GAG GTT XXX
601/201	631/211
T C Q V E H P S L T	S P L T V E W R A R
ACC TGC CAA GTG GAG CAC CCA AGC CTG ACG	AGC CCT CTC ACA GTG GAA TGG AGA GCA CGG
661/221	691/231
S E S A Q S K G G S	G G S A Q L K K K L
TCT GAA TCT GCA CAG AGC AAG <u>GGC GGC TCC</u>	<u>GGT GGT AGC</u> GCC CAG CTG AAG AAG AAA CTC
721/241	751/251
Q A L K K K N A Q L	K Q K L Q A L K K K
CAG GCT CTG AAA AAA AAG AAT GCC CAG CTC	AAG CAG AAG CTG CAG GCC CTG AAG AAA AAG
781/261	811/271
L A Q G S G G S A G	G G L N D I F E A Q
CTG GCT CAG <u>GGT TCC GGT GGT TCC GCG</u> GGT	GGT GGT TTG AAC GAC ATC TTC GAA GCT CAG
841/281	
K I E W H * *	
AAA ATC GAA TGG CAC TAA TAA	

FIG. 32

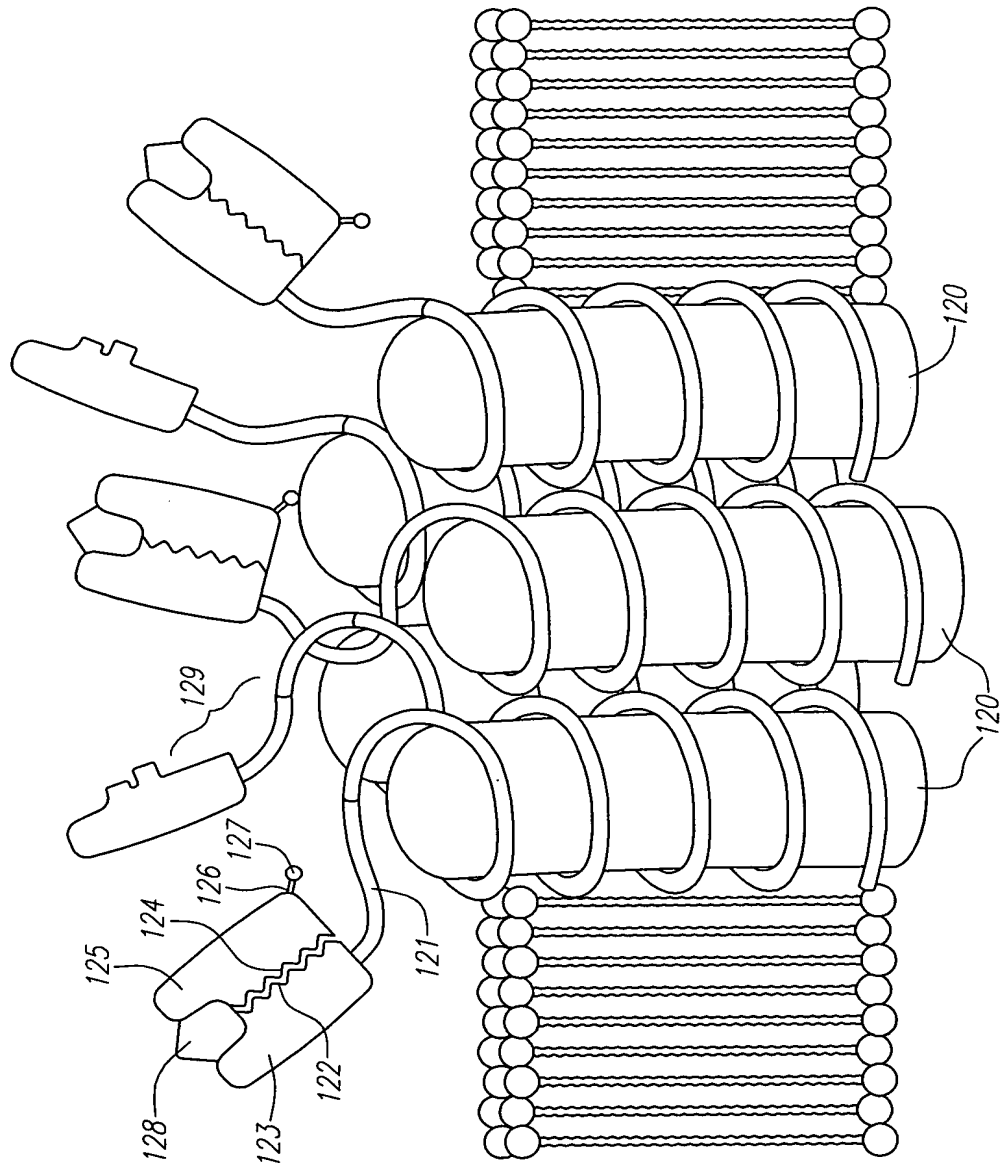
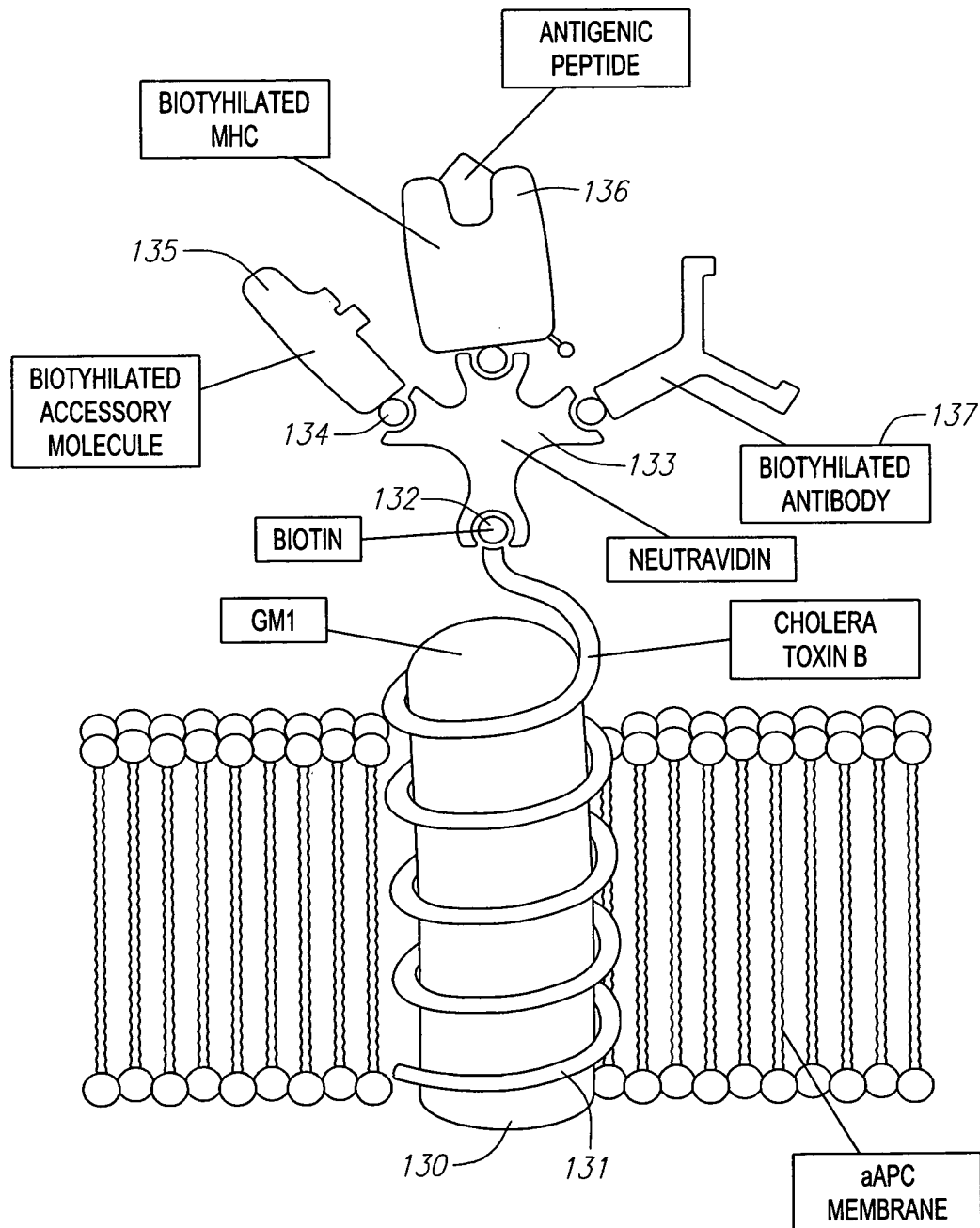
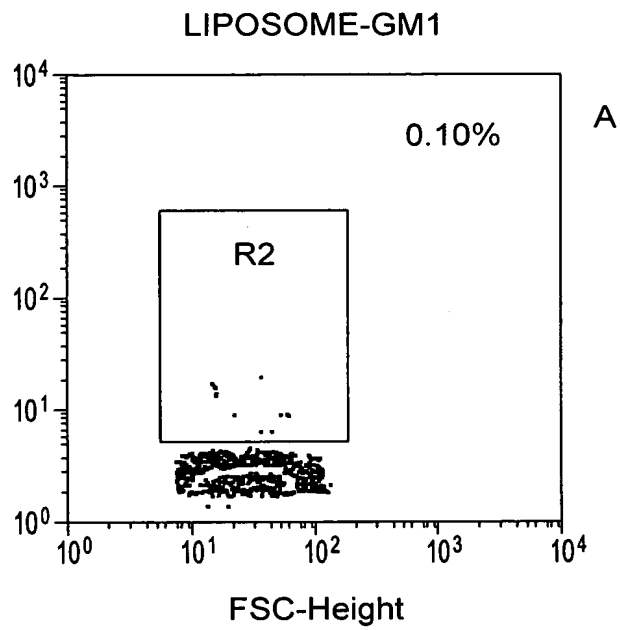


FIG. 33

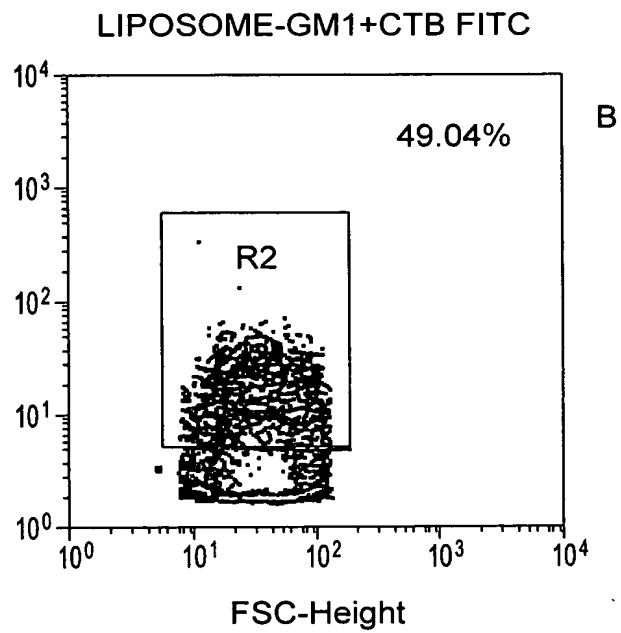




**FIG. 34**



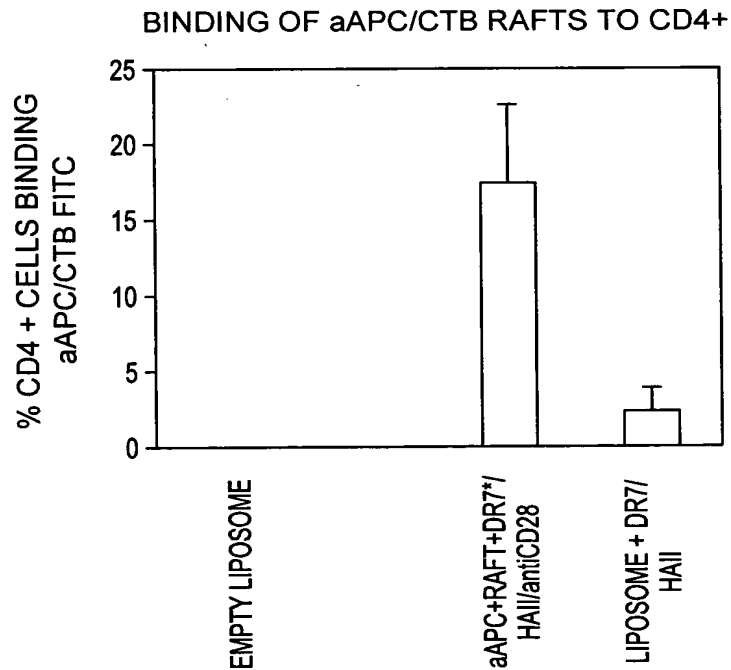
*FIG. 35A*



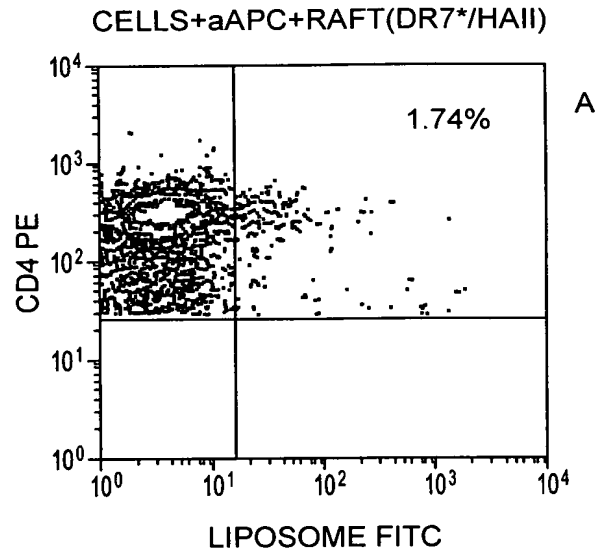
*FIG. 35B*

NAME	PARAMETER	GATE	p MOLES CTB FITC	GEO MEAN	%GATED M2
lip.001	FL1-H	G1	CONTROL-0	2.32	8.1
lip.002	FL1-H	G1	25pMOLES	2.25	6.1
lip.003	FL1-H	G1	50pMOLES	3.17	27.2
lip.004	FL1-H	G1	100pMOLES	2.78	20.4
lip.005	FL1-H	G1	200pMOLES	3.07	27.5
lip.006	FL1-H	G1	400pMOLES	3.52	40.4
lip.007	FL1-H	G1	800pMOLES	5.59	73.0
lip.008	FL1-H	G1	2000pMOLES	7.57	82.4
lip.009	FL1-H	G1	5000pMOLES	20.82	97.1

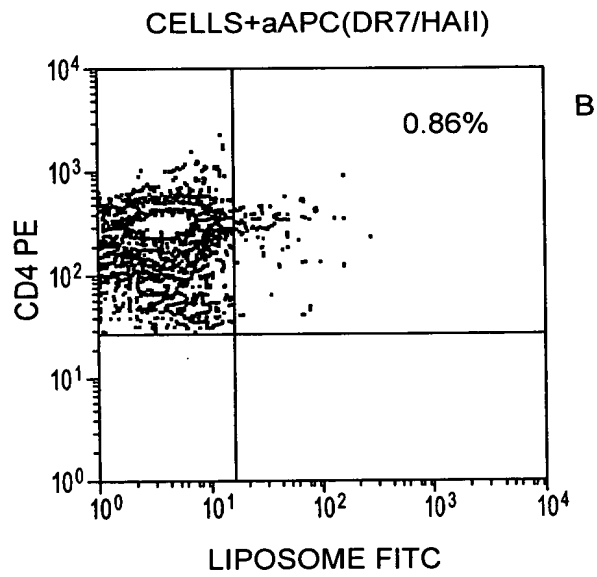
**FIG. 36**



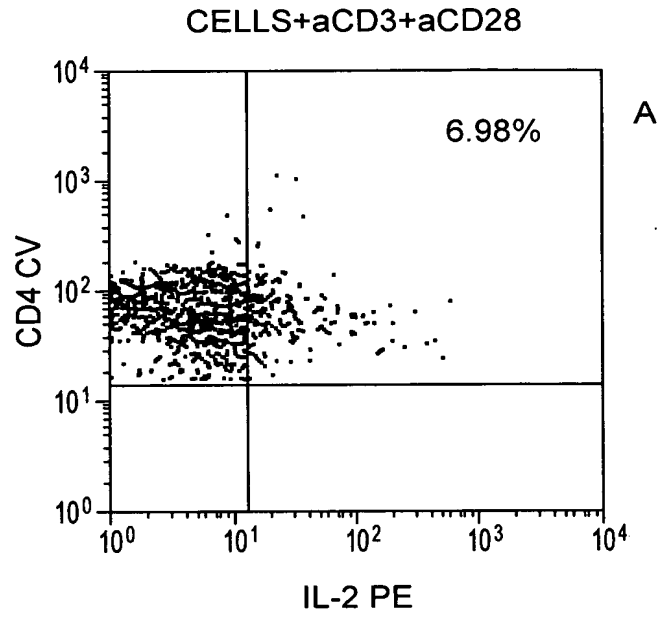
**FIG. 37**



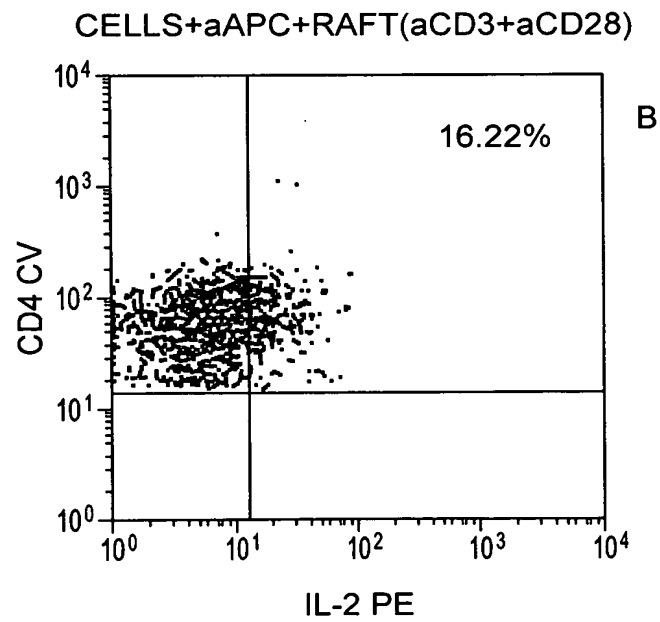
**FIG. 38A**



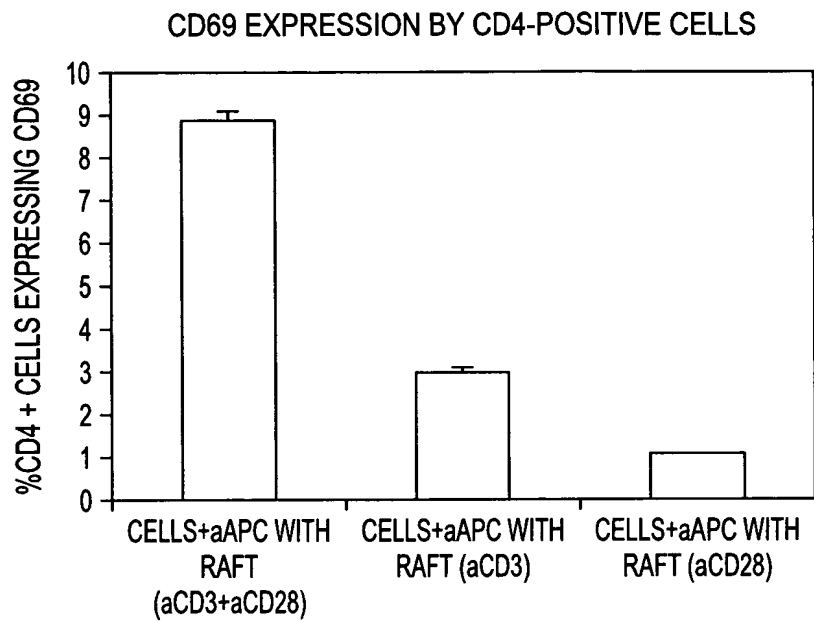
**FIG. 38B**



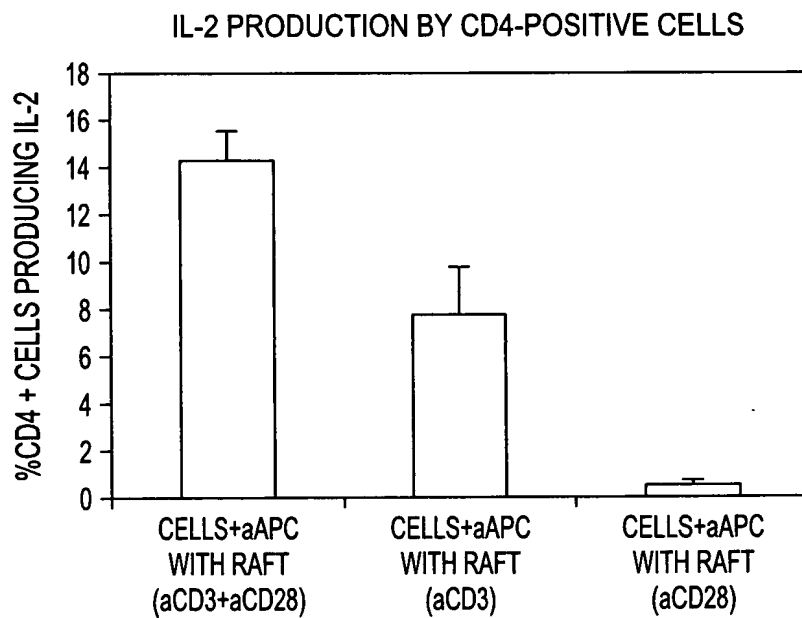
*FIG. 39A*



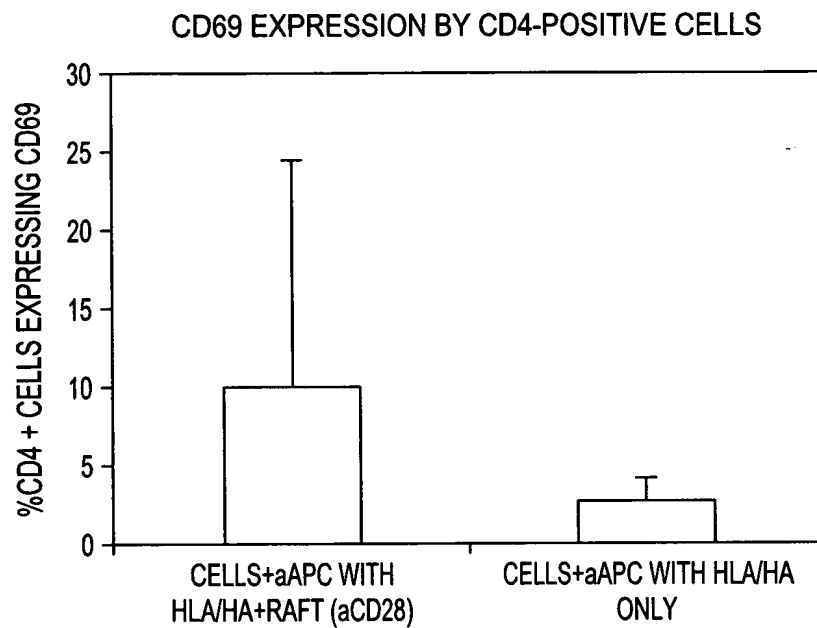
*FIG. 39B*



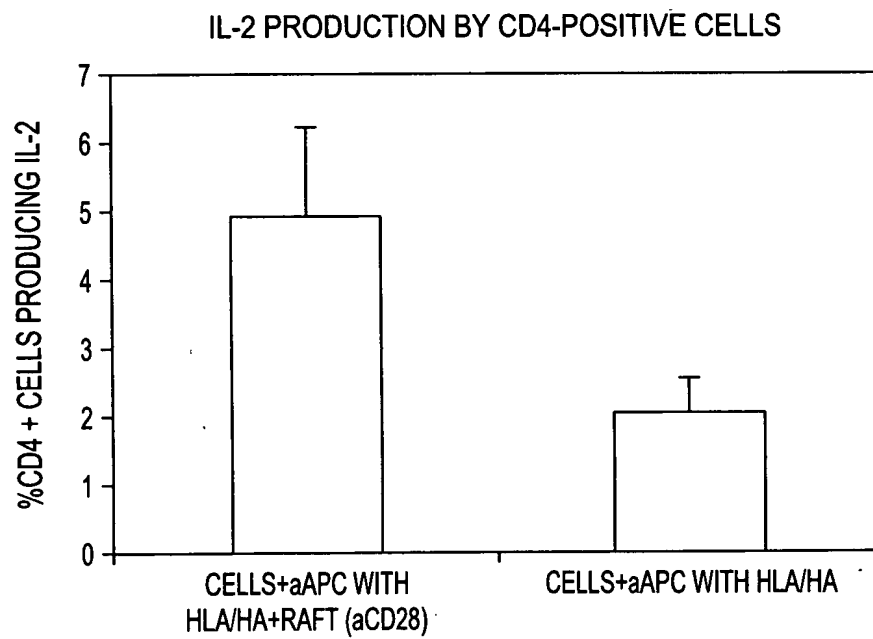
*FIG. 40*



*FIG. 41*



*FIG. 42*



*FIG. 43*